



SEQUENCE LISTING

<110> Havenga, Menzo
Vogels, Ronald
Bout, Abraham

<120> CHIMERIC ADENOVIRUSES

<130> 2183-4123US

<140> US 09/348,354

<141> 1999-07-07

<160> 84

<170> PatentIn version 3.0

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<212> DNA

<213> Human Adenovirus Oligonucleotide

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35

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cccgtctacc catatggcta cgcgcgg

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cckgtstacc catatgaaga tgaaagc

27

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cccgtctacc catatgacac ctyctcaact c

31

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<211> 36

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cccgtttacc catatgaccc atttgacaca tcagac

36

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 ccgatgcatt yattcttggg cratatagga 30

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 <210> 13
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ccgatgcatt cagtcacgt ctwtaatat

30

<210> 14
<211> 377
<212> PRT
<213> Human Adenovirus 8 Fiber Protein

<400> 14

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met
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			20					25					30		
Gly	Tyr	Ala	Arg	Asn	Gln	Asn	Ile	Pro	Phe	Leu	Thr	Pro	Pro	Phe	Val
		35					40					45			
Ser	Ser	Asn	Gly	Phe	Gln	Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys
	50					55					60				
Leu	Ala	Asp	Pro	Ile	Thr	Ile	Asn	Asn	Gln	Asn	Val	Ser	Leu	Lys	Val
65					70					75					80
Gly	Gly	Gly	Leu	Thr	Leu	Gln	Glu	Glu	Thr	Gly	Lys	Leu	Thr	Val	Asn
				85					90					95	
Thr	Glu	Pro	Pro	Leu	His	Leu	Thr	Asn	Asn	Lys	Leu	Gly	Ile	Ala	Leu
			100					105					110		
Asp	Ala	Pro	Phe	Asp	Val	Ile	Asp	Asn	Lys	Leu	Thr	Leu	Leu	Ala	Gly
		115					120					125			
His	Gly	Leu	Ser	Ile	Ile	Thr	Lys	Glu	Thr	Ser	Thr	Leu	Pro	Gly	Leu
	130					135					140				
Val	Asn	Thr	Leu	Val	Val	Leu	Thr	Gly	Lys	Gly	Ile	Gly	Thr	Asp	Leu
145					150					155					160
Ser	Asn	Asn	Gly	Gly	Asn	Ile	Cys	Val	Arg	Val	Gly	Glu	Gly	Gly	Gly
				165					170					175	
Leu	Ser	Phe	Asn	Asp	Asn	Gly	Asp	Leu	Val	Ala	Phe	Asn	Lys	Lys	Glu
			180					185					190		
Asp	Lys	Arg	Thr	Leu	Trp	Thr	Thr	Pro	Asp	Thr	Ser	Pro	Asn	Cys	Arg
		195					200					205			
Ile	Asp	Gln	Asp	Lys	Asp	Ser	Lys	Leu	Ser	Leu	Val	Leu	Thr	Lys	Cys
	210					215					220				
Gly	Ser	Gln	Ile	Leu	Ala	Asn	Val	Ser	Leu	Ile	Val	Val	Ala	Gly	Arg
225					230					235					240
Tyr	Lys	Ile	Ile	Asn	Asn	Asn	Thr	Asn	Pro	Ala	Leu	Lys	Gly	Phe	Thr
				245					250					255	
Ile	Lys	Leu	Leu	Phe	Asp	Lys	Asn	Gly	Val	Leu	Met	Glu	Ser	Ser	Asn
			260					265					270		
Leu	Gly	Lys	Ser	Tyr	Trp	Asn	Phe	Arg	Asn	Gln	Asn	Ser	Ile	Met	Ser
		275					280					285			

Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala Tyr
 290 295 300
 Pro Lys Pro Thr Thr Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val Tyr
 305 310 315 320
 Gly Asn Ile Tyr Leu Gly Gly Lys Pro His Gln Pro Val Thr Ile Lys
 325 330 335
 Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe Asp
 340 345 350
 Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr Ser
 355 360 365
 Phe Thr Phe Ser Tyr Ile Ala Gln Glu
 370 375

<210> 15
 <211> 376
 <212> PRT
 <213> Human Adenovirus 9 Fiber Protein

<400> 15

Ser Cys Ser Cys Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
 1 5 10 15
 Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr
 20 25 30
 Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Phe Val
 35 40 45
 Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
 50 55 60
 Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys Val
 65 70 75 80
 Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val Asn
 85 90 95
 Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala Leu
 100 105 110
 Asp Ala Pro Phe Asp Val Ile Asp Lys Leu Thr Leu Leu Ala Gly His
 115 120 125
 Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly Leu Ile
 130 135 140
 Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu Ser Thr
 145 150 155 160
 Asp Asn Gly Gly Ser Val Cys Val Arg Val Gly Glu Gly Gly Gly Leu
 165 170 175
 Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys Glu Asp
 180 185 190
 Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile
 195 200 205
 Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys Cys Gly

210	215	220
Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Ala Gly Lys Tyr		
225	230	235 240
Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe Thr Ile		
	245	250 255
Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser Asn Leu		
	260	265 270
Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met Ser Thr		
	275	280 285
Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala Tyr Pro		
	290	295 300
Lys Pro Thr Ala Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val Tyr Gly		
305	310	315 320
Asn Ile Tyr Leu Gly Gly Lys Pro Asp Gln Pro Val Thr Ile Lys Thr		
	325	330 335
Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe Asp Phe		
	340	345 350
Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr Ser Phe		
	355	360 365
Thr Phe Ser Tyr Ile Ala Gln Glu		
370	375	

<210> 16
 <211> 391
 <212> PRT
 <213> Human Adenovirus 13 Fiber Protein

<220>
 <221> Xaa
 <222> (1)..(385)
 <223> Can be any amino acid

<400> 16

Xaa Xaa Xaa Xaa Xaa Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met	
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Lys Arg Ala Arg Ser Ser Xaa Asp Thr Phe Asn Pro Val Tyr Pro Tyr	
	20 25 30
Gly Tyr Ala Arg Asn Gln Asn Ile Xaa Phe Xaa Thr Pro Pro Phe Val	
	35 40 45
Xaa Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu Lys	
	50 55 60
Leu Ala Asp Pro Ile Thr Ile Ala Asn Gly Asp Val Ser Leu Lys Val	
65	70 75 80
Gly Gly Gly Leu Thr Leu Gln Glu Gly Ser Leu Thr Val Asp Pro Lys	
	85 90 95
Ala Pro Leu Gln Leu Ala Asn Asp Lys Lys Leu Glu Leu Val Tyr Asp	
	100 105 110

Asp Pro Phe Glu Val Ser Thr Asn Lys Leu Ser Leu Lys Val Gly His
 115 120 125
 Gly Leu Lys Val Leu Asp Asp Lys Ser Ala Gly Gly Leu Lys Asp Leu
 130 135 140
 Ile Gly Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Ile Glu Asn
 145 150 155 160
 Leu Gln Asn Asp Asp Gly Ser Ser Arg Gly Val Gly Ile Asn Val Arg
 165 170 175
 Leu Gly Thr Asp Gly Gly Leu Ser Phe Asp Arg Lys Gly Glu Leu Val
 180 185 190
 Ala Trp Asn Arg Lys Asp Asp Arg Arg Thr Leu Trp Thr Thr Pro Asp
 195 200 205
 Pro Ser Pro Asn Cys Lys Ala Glu Thr Glu Lys Asp Ser Lys Leu Thr
 210 215 220
 Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Thr Val Ser Ile
 225 230 235 240
 Ile Val Leu Lys Gly Lys Tyr Glu Phe Val Lys Lys Glu Thr Glu Pro
 245 250 255
 Lys Ser Phe Asp Val Lys Leu Leu Phe Asp Ser Lys Gly Val Leu Leu
 260 265 270
 Pro Thr Ser Asn Leu Ser Lys Glu Tyr Trp Asn Tyr Arg Ser Tyr Asp
 275 280 285
 Asn Asn Ile Gly Thr Pro Tyr Glu Asn Ala Val Pro Phe Met Pro Asn
 290 295 300
 Leu Lys Ala Tyr Pro Lys Pro Thr Lys Thr Ala Ser Asp Lys Ala Glu
 305 310 315 320
 Asn Lys Ile Ser Ser Ala Lys Asn Lys Ile Val Ser Asn Phe Tyr Phe
 325 330 335
 Gly Gly Gln Ala Tyr Gln Pro Gly Thr Ile Ile Ile Lys Phe Asn Glu
 340 345 350
 Glu Ile Asp Glu Thr Cys Ala Tyr Ser Ile Thr Phe Asn Phe Gly Trp
 355 360 365
 Gly Lys Val Tyr Asp Asn Pro Glu Pro Phe Asp Thr Thr Ser Phe Thr
 370 375 380
 Xaa Ser Tyr Ile Ala Gln Glu
 385 390

<210> 17
 <211> 290
 <212> PRT
 <213> Human Adenovirus 14 Fiber Protein
 <400> 17

His Pro Phe Ile Asn Pro Gly Phe Ile Ser Pro Asn Gly Phe Thr Gln
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Ser Pro Asp Gly Val Leu Thr Leu Lys Cys Leu Thr Pro Leu Thr Thr
 20 25 30
 Thr Gly Gly Ser Leu Gln Leu Lys Val Gly Gly Gly Leu Thr Val Asp
 35 40 45
 Asp Thr Asp Gly Thr Leu Gln Glu Asn Ile Gly Ala Thr Thr Pro Leu
 50 55 60
 Val Lys Thr Gly His Ser Ile Gly Leu Ser Leu Gly Ala Gly Leu Gly
 65 70 75 80
 Thr Asp Glu Asn Lys Leu Cys Thr Lys Leu Gly Glu Gly Leu Thr Phe
 85 90 95
 Asn Ser Asn Asn Ile Cys Ile Asp Asp Asn Ile Asn Thr Leu Trp Thr
 100 105 110
 Gly Val Asn Pro Thr Glu Ala Asn Cys Gln Met Met Asp Ser Ser Glu
 115 120 125
 Ser Asn Asp Cys Lys Leu Ile Leu Thr Leu Val Lys Thr Gly Ala Leu
 130 135 140
 Val Thr Ala Phe Val Tyr Val Ile Gly Val Ser Asn Asn Phe Asn Met
 145 150 155 160
 Leu Thr Thr Tyr Arg Asn Ile Asn Phe Thr Ala Glu Leu Phe Phe Asp
 165 170 175
 Ser Ala Gly Asn Leu Leu Thr Ser Leu Ser Ser Leu Lys Thr Pro Leu
 180 185 190
 Asn His Lys Ser Gly Gln Thr Trp Leu Leu Val Pro Leu Leu Met Leu
 195 200 205
 Lys Val Ser Cys Pro Ala Gln Leu Leu Ile Leu Ser Ile Ile Ile Leu
 210 215 220
 Glu Lys Asn Lys Thr Thr Phe Thr Glu Leu Val Thr Thr Gln Leu Val
 225 230 235 240
 Ile Thr Leu Leu Phe Pro Leu Thr Ile Ser Val Met Leu Asn Gln Arg
 245 250 255
 Ala Ile Arg Ala Asp Thr Ser Tyr Cys Ile Arg Ile Thr Trp Ser Trp
 260 265 270
 Asn Thr Gly Asp Ala Pro Glu Gly Gln Thr Ser Ala Thr Thr Leu Val
 275 280 285
 Thr Ser
 290

<210> 18
 <211> 344
 <212> PRT
 <213> Human Adenovirus 20 Fiber Protein

<400> 18

Ile Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val Ser Ser Asp Gly
 1 5 10 15
 Leu Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys Leu Ala Asp Pro

20					25					30					
Ile	Ala	Ile	Val	Asn	Gly	Asn	Val	Ser	Leu	Lys	Val	Gly	Gly	Gly	Ile
		35					40					45			
Thr	Val	Glu	Gln	Asp	Ser	Gly	Gln	Leu	Ile	Ala	Asn	Pro	Lys	Ala	Pro
	50					55					60				
Leu	Gln	Val	Ala	Asn	Asp	Lys	Leu	Glu	Leu	Ser	Tyr	Ala	Tyr	Pro	Phe
65					70					75					80
Glu	Thr	Ser	Ala	Asn	Lys	Leu	Ser	Leu	Lys	Val	Gly	Gln	Gly	Leu	Lys
				85					90					95	
Val	Leu	Asp	Glu	Lys	Asp	Ser	Gly	Gly	Leu	Gln	Asn	Leu	Leu	Gly	Lys
			100					105					110		
Leu	Val	Val	Leu	Thr	Gly	Lys	Gly	Ile	Gly	Val	Glu	Glu	Leu	Lys	Asn
		115					120					125			
Pro	Asp	Asn	Thr	Asn	Arg	Gly	Val	Gly	Ile	Asn	Val	Arg	Leu	Gly	Lys
	130					135					140				
Asp	Gly	Gly	Leu	Ser	Phe	Asn	Lys	Asn	Gly	Glu	Leu	Val	Ala	Trp	Asn
145					150					155					160
Lys	His	Asn	Asp	Thr	Gly	Thr	Leu	Trp	Thr	Thr	Pro	Asp	Pro	Ser	Pro
				165					170					175	
Asn	Cys	Lys	Ile	Glu	Glu	Val	Lys	Asp	Ser	Lys	Leu	Thr	Leu	Val	Leu
			180					185					190		
Thr	Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Thr	Met	Ala	Phe	Gln	Val	Val
		195					200					205			
Lys	Gly	Thr	Tyr	Glu	Asn	Ile	Ser	Lys	Asn	Thr	Ala	Lys	Asn	Ser	Phe
	210					215					220				
Ser	Ile	Lys	Leu	Leu	Phe	Asp	Asp	Asn	Gly	Lys	Leu	Leu	Glu	Gly	Ser
225					230					235					240
Ser	Leu	Asp	Lys	Asp	Tyr	Trp	Asn	Phe	Arg	Ser	Asp	Asp	Ser	Ile	Ile
				245					250					255	
Pro	Asn	Gln	Tyr	Asp	Asn	Ala	Val	Pro	Phe	Met	Pro	Asn	Leu	Lys	Ala
			260					265					270		
Tyr	Pro	Lys	Pro	Ser	Thr	Val	Leu	Pro	Ser	Thr	Asp	Lys	Asn	Ser	Asn
		275					280					285			
Gly	Lys	Asn	Thr	Ile	Val	Ser	Asn	Leu	Tyr	Leu	Glu	Gly	Lys	Ala	Tyr
	290					295					300				
Gln	Pro	Val	Ala	Val	Thr	Ile	Thr	Phe	Asn	Lys	Glu	Ile	Gly	Cys	Thr
305					310					315					320
Tyr	Ser	Ile	Thr	Phe	Asp	Phe	Gly	Trp	Ala	Lys	Thr	Tyr	Asp	Val	Pro
				325					330					335	
Ile	Pro	Asp	Ser	Ser	Ser	Phe	Thr								
			340												

<210> 19
 <211> 345
 <212> PRT

<213> Human Adenovirus 23 Fiber Protein

<400> 19

Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val Ser Ser Asp Gly Phe
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Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys Leu Ala Asp Pro Ile
20 25 30
Ala Ile Thr Asn Gly Asp Val Ser Leu Lys Val Gly Gly Gly Leu Thr
35 40 45
Val Glu Gln Asp Ser Gly Asn Leu Lys Val Asn Thr Lys Ala Pro Leu
50 55 60
Gln Val Ala Ala Asp Lys Gln Leu Glu Ile Ala Leu Ala Asp Pro Phe
65 70 75 80
Glu Val Ser Lys Gly Arg Leu Gly Ile Lys Ala Gly His Gly Leu Lys
85 90 95
Val Ile Asp Asn Ser Ile Ser Gly Leu Glu Gly Leu Val Gly Thr Leu
100 105 110
Val Val Leu Thr Gly His Gly Ile Gly Thr Glu Asn Leu Leu Asn Asn
115 120 125
Asp Gly Ser Ser Arg Gly Val Gly Ile Asn Val Arg Leu Gly Lys Asp
130 135 140
Gly Gly Leu Ser Phe Asp Lys Lys Gly Asp Leu Val Ala Trp Asn Lys
145 150 155 160
Lys Tyr Asp Thr Arg Thr Leu Trp Thr Thr Pro Asp Pro Ser Pro Asn
165 170 175
Cys Lys Val Ile Glu Ala Lys Asp Ser Lys Leu Thr Leu Val Leu Thr
180 185 190
Lys Cys Gly Ser Gln Ile Leu Ala Asn Met Ser Leu Leu Ile Leu Lys
195 200 205
Gly Thr Tyr Glu Tyr Ile Ser Asn Ala Ile Ala Asn Lys Ser Phe Thr
210 215 220
Ile Lys Leu Leu Phe Asn Asp Lys Gly Val Leu Met Asp Gly Ser Ser
225 230 235 240
Leu Asp Lys Asp Tyr Trp Asn Tyr Lys Ser Asp Asp Ser Val Met Ser
245 250 255
Lys Ala Tyr Glu Asn Ala Val Pro Phe Met Pro Asn Leu Lys Ala Tyr
260 265 270
Pro Asn Pro Thr Thr Ser Thr Thr Asn Pro Ser Thr Asp Lys Lys Ser
275 280 285
Asn Gly Lys Asn Ala Ile Val Ser Asn Val Tyr Leu Glu Gly Arg Ala
290 295 300
Tyr Gln Pro Val Ala Ile Thr Ile Thr Phe Asn Lys Glu Thr Gly Cys
305 310 315 320
Thr Tyr Ser Met Thr Phe Asp Phe Gly Trp Ser Lys Val Tyr Asn Pro

	325		330		335
Ile Pro Phe Asp Thr Ser Ser Leu Thr					
	340		345		
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<211>	389				
<212>	PRT				
<213>	Human Adenovirus 24 Fiber Protein				
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Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr					
	20		25		30
Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val					
	35		40		45
Ser Ser Asp Gly Phe Gln Asn Phe Pro Gly Val Leu Ser Leu Lys Leu					
	50		55		60
Ala Asp Pro Ile Ala Ile Thr Asn Gly Asp Tyr Ser Leu Lys Val Gly					
65	70		75		80
Gly Gly Leu Thr Val Glu Lys Asp Ser Gly Asn Leu Lys Val Asn Pro					
	85		90		95
Lys Ala Pro Leu Gln Val Thr Thr Asp Lys Gln Leu Glu Ile Ala Leu					
	100		105		110
Ala Tyr Pro Phe Glu Val Ser Asn Gly Lys Leu Gly Ile Lys Ala Gly					
	115		120		125
His Gly Leu Lys Val Ile Asp Lys Ile Ala Gly Leu Glu Gly Leu Ala					
	130		135		140
Gly Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu Asn Leu					
145	150		155		160
Glu Asn Ser Asp Gly Ser Ser Arg Gly Val Gly Ile Asn Val Arg Leu					
	165		170		175
Ala Lys Asp Gly Gly Leu Ser Phe Asp Lys Lys Gly Asp Leu Val Ala					
	180		185		190
Trp Asn Lys His Asp Asp Arg Arg Thr Leu Trp Thr Thr Pro Asp Pro					
	195		200		205
Ser Pro Asn Cys Thr Ile Asp Gln Glu Arg Asp Ser Lys Leu Thr Leu					
	210		215		220
Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Leu					
225	230		235		240
Val Val Lys Gly Lys Phe Ser Asn Ile Asn Asn Asn Thr Asn Pro Thr					
	245		250		255
Asp Lys Lys Ile Thr Val Lys Leu Leu Phe Asn Glu Lys Gly Val Leu					
	260		265		270
Met Asp Ser Ser Thr Leu Lys Lys Glu Tyr Trp Asn Tyr Arg Asn Asp					
	275		280		285

Asn Ser Thr Val Ser Gln Ala Tyr Asp Asn Ala Val Pro Phe Met Pro
 290 295 300
 Asn Ile Lys Ala Tyr Pro Lys Pro Thr Thr Asp Thr Ser Ala Lys Pro
 305 310 315 320
 Glu Asp Lys Lys Ser Ala Ala Lys Arg Tyr Ile Val Ser Asn Val Tyr
 325 330 335
 Ile Gly Gly Leu Pro Asp Lys Thr Val Val Ile Thr Ile Lys Phe Asn
 340 345 350
 Ala Glu Thr Glu Cys Ala Tyr Ser Ile Thr Phe Glu Phe Thr Trp Ala
 355 360 365
 Lys Thr Phe Glu Asp Val Trp Phe Asp Ser Ser Ser Phe Thr Phe Ser
 370 375 380
 Tyr Ile Ala Gln Glu
 385

<210> 21
 <211> 374
 <212> PRT
 <213> Human Adenovirus 25 Fiber Protein
 <220>
 <221> Xaa
 <222> (141)..(141)
 <223> Can be any amino acid

<400> 21

Ser Cys Ser Cys Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
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 Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Gly
 20 25 30
 Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Ile Pro Pro Phe Val
 35 40 45
 Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
 50 55 60
 Leu Ala Asp Pro Ile Thr Ile Ser Asn Gly Asp Val Ser Leu Lys Val
 65 70 75 80
 Gly Gly Gly Leu Thr Val Glu Gln Asp Ser Gly Asn Leu Ser Val Asn
 85 90 95
 Pro Lys Ala Pro Leu Gln Val Gly Thr Asp Lys Lys Leu Glu Leu Ala
 100 105 110
 Leu Ala Pro Pro Phe Asn Val Lys Asp Asn Lys Leu Asp Leu Leu Val
 115 120 125
 Gly Asp Gly Leu Lys Val Ile Asp Lys Ser Ile Ser Xaa Leu Pro Gly
 130 135 140
 Leu Leu Asn Tyr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Asn Glu
 145 150 155 160

Glu Leu Lys Leu Asp Asp Gly Ser Asn Lys Val Gly Leu Cys Val Arg
 165 170 175
 Ile Gly Glu Gly Gly Gly Leu Thr Phe Asp Asp Lys Gly Tyr Leu Val
 180 185 190
 Ala Trp Asn Lys Lys His Asp Ile Arg Thr Leu Trp Thr Thr Leu Asp
 195 200 205
 Pro Ser Pro Asn Cys Arg Ile Asp Val Asp Lys Asp Ser Lys Leu Thr
 210 215 220
 Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu
 225 230 235 240
 Leu Val Val Lys Gly Arg Phe Gln Asn Leu Asn Tyr Lys Thr Asn Pro
 245 250 255
 Asn Leu Pro Lys Thr Phe Thr Ile Lys Leu Leu Phe Asp Glu Asn Gly
 260 265 270
 Ile Leu Lys Asp Ser Ser Asn Leu Asp Lys Asn Tyr Trp Asn Tyr Arg
 275 280 285
 Asn Gly Asn Ser Ile Leu Ala Glu Gln Tyr Lys Asn Ala Val Gly Phe
 290 295 300
 Met Pro Asn Leu Ala Ala Tyr Pro Lys Ser Thr Thr Thr Gln Ser Lys
 305 310 315 320
 Leu Tyr Ala Arg Asn Thr Ile Phe Gly Asn Thr Tyr Leu Asp Ser Gln
 325 330 335
 Ala Tyr Asn Pro Val Val Ile Lys Ile Thr Phe Asn Gln Glu Ala Asp
 340 345 350
 Ser Ala Tyr Ser Ile Thr Leu Asn Tyr Ser Trp Gly Lys Asp Tyr Glu
 355 360 365
 Asn Ile Pro Phe Asp Ser
 370

<210> 22
 <211> 334
 <212> PRT
 <213> Human Adenovirus 27 Fiber Protein

<400> 22

Ile Pro Phe Leu Thr Pro Pro Phe Val Ser Ser Asp Gly Phe Lys Asn
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 Phe Pro Pro Gly Val Leu Ser Leu Lys Leu Ala Asp Pro Ile Thr Ile
 20 25 30
 Thr Asn Gly Asp Val Ser Leu Lys Val Gly Gly Gly Leu Val Val Glu
 35 40 45
 Lys Glu Ser Gly Lys Leu Ser Val Asp Pro Lys Thr Pro Leu Gln Val
 50 55 60
 Ala Ser Asp Asn Lys Leu Glu Leu Ser Tyr Asn Ala Pro Phe Lys Val
 65 70 75 80
 Glu Asn Asp Lys Leu Ser Leu Asp Val Gly His Gly Leu Lys Val Ile

85								90				95			
Gly	Asn	Glu	Val	Ser	Ser	Leu	Pro	Gly	Leu	Ile	Asn	Lys	Leu	Val	Val
			100					105					110		
Leu	Thr	Gly	Lys	Gly	Ile	Gly	Thr	Glu	Leu	Leu	Lys	Glu	Gln	Asn	Ser
		115					120					125			
Asp	Lys	Ile	Ile	Gly	Val	Gly	Ile	Asn	Val	Arg	Ala	Arg	Gly	Gly	Leu
	130					135					140				
Ser	Phe	Asp	Asn	Asp	Gly	Tyr	Leu	Val	Ala	Trp	Asn	Pro	Lys	Tyr	Asp
145					150					155					160
Thr	Arg	Thr	Leu	Trp	Thr	Thr	Pro	Asp	Thr	Ser	Pro	Asn	Cys	Lys	Met
				165				170						175	
Leu	Thr	Lys	Lys	Asp	Ser	Lys	Leu	Thr	Leu	Thr	Leu	Thr	Lys	Cys	Gly
			180					185					190		
Ser	Gln	Ile	Leu	Gly	Asn	Val	Ser	Leu	Leu	Ala	Val	Ser	Gly	Lys	Tyr
		195					200					205			
Leu	Asn	Met	Thr	Lys	Asp	Glu	Thr	Gly	Val	Lys	Ile	Ile	Leu	Leu	Phe
	210					215					220				
Asp	Arg	Asn	Gly	Val	Leu	Met	Gln	Glu	Ser	Ser	Leu	Asp	Lys	Glu	Tyr
225					230					235					240
Trp	Met	Tyr	Arg	Asn	Asp	Asn	Asn	Val	Ile	Gly	Thr	Pro	Tyr	Glu	Asn
				245				250						255	
Ala	Val	Gly	Phe	Met	Pro	Asn	Leu	Val	Ala	Tyr	Pro	Lys	Pro	Thr	Ser
			260					265					270		
Ala	Asp	Ala	Lys	Asn	Tyr	Ser	Arg	Ser	Lys	Ile	Ile	Ser	Asn	Tyr	Leu
		275					280					285			
Lys	Gly	Leu	Ile	Tyr	Gln	Pro	Val	Ile	Ile	Ile	Ala	Ser	Phe	Asn	Gln
	290					295					300				
Glu	Thr	Thr	Asn	Gly	Cys	Val	Tyr	Ser	Ile	Ser	Phe	Asp	Phe	Thr	Cys
305					310					315					320
Ser	Lys	Asp	Tyr	Thr	Gly	Gln	Gln	Phe	Asp	Val	Thr	Ser	Phe		
				325				330							

<210> 23
 <211> 374
 <212> PRT
 <213> Human Adenovirus 28 Fiber Protein
 <400> 23

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met
1				5					10					15	
Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr
			20					25					30		
Gly	Tyr	Ala	Arg	Asn	Gln	Asn	Ile	Pro	Phe	Leu	Thr	Pro	Pro	Phe	Val
		35					40					45			
Ser	Ser	Asp	Gly	Phe	Gln	Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys
	50					55					60				

Leu Ala Asp Pro Ile Thr Ile Ala Asn Gly Asp Val Ser Leu Lys Leu
 65 70 75 80
 Gly Gly Gly Leu Thr Val Glu Lys Glu Ser Gly Asn Leu Thr Val Asn
 85 90 95
 Pro Lys Ala Pro Leu Gln Val Ala Ser Gly Gln Leu Glu Leu Ala Tyr
 100 105 110
 Tyr Ser Pro Phe Asp Val Lys Asn Asn Met Leu Thr Leu Lys Ala Gly
 115 120 125
 His Gly Leu Ala Val Val Thr Lys Asp Asn Thr Asp Leu Gln Pro Leu
 130 135 140
 Met Gly Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Gly Thr
 145 150 155 160
 Ser Ala His Gly Gly Thr Ile Asp Val Arg Ile Gly Lys Asn Gly Ser
 165 170 175
 Leu Ala Phe Asp Lys Asn Gly Asp Leu Val Ala Trp Asp Lys Glu Asn
 180 185 190
 Asp Arg Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys
 195 200 205
 Met Ser Glu Val Lys Asp Ser Lys Leu Thr Leu Ile Leu Thr Lys Cys
 210 215 220
 Gly Ser Gln Ile Leu Gly Ser Val Ser Leu Leu Ala Val Lys Gly Glu
 225 230 235 240
 Tyr Gln Asn Met Thr Ala Ser Thr Asn Lys Asn Val Lys Ile Thr Leu
 245 250 255
 Leu Phe Asp Ala Asn Gly Val Leu Leu Glu Gly Ser Ser Leu Asp Lys
 260 265 270
 Glu Tyr Trp Asn Phe Arg Asn Asn Asp Ser Thr Val Ser Gly Lys Tyr
 275 280 285
 Glu Asn Ala Val Pro Phe Met Pro Asn Ile Thr Ala Tyr Lys Pro Val
 290 295 300
 Asn Ser Lys Ser Tyr Ala Arg Ser His Ile Phe Gly Asn Val Tyr Ile
 305 310 315 320
 Asp Ala Lys Pro Tyr Asn Pro Val Val Ile Lys Ile Ser Phe Asn Gln
 325 330 335
 Glu Thr Gln Asn Asn Cys Val Tyr Ser Ile Ser Phe Asp Tyr Thr Cys
 340 345 350
 Ser Lys Glu Tyr Thr Gly Met Gln Phe Asp Val Thr Ser Phe Thr Phe
 355 360 365
 Ser Tyr Ile Ala Gln Glu
 370

<210> 24
 <211> 343
 <212> PRT
 <213> Human Adenovirus 29 Fiber Protein

<400> 24

Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val Ser Ser Asp Gly Phe
1 5 10 15
Lys Asn Phe Pro Pro Gly Val Leu Ser Leu Lys Leu Ala Asp Pro Ile
20 25 30
Ala Ile Thr Asn Gly Asp Val Ser Leu Lys Val Gly Gly Gly Leu Thr
35 40 45
Val Glu Gln Asp Ser Gly Asn Leu Ser Val Asn Pro Lys Ala Pro Leu
50 55 60
Gln Val Gly Thr Asp Lys Lys Leu Glu Leu Ala Leu Ala Pro Pro Phe
65 70 75 80
Asp Val Arg Asp Asn Lys Leu Ala Ile Leu Val Gly Asp Gly Leu Lys
85 90 95
Val Ile Asp Arg Ser Ile Ser Asp Leu Pro Gly Leu Leu Asn Tyr Leu
100 105 110
Val Val Leu Thr Gly Lys Gly Ile Gly Asn Glu Glu Leu Lys Asn Asp
115 120 125
Asp Gly Ser Asn Lys Gly Val Gly Leu Cys Val Arg Ile Gly Glu Gly
130 135 140
Gly Gly Leu Thr Phe Asp Asp Lys Gly Tyr Leu Val Ala Trp Asn Asn
145 150 155 160
Lys His Asp Ile Arg Thr Leu Trp Thr Thr Leu Asp Pro Ser Pro Asn
165 170 175
Cys Lys Ile Asp Ile Glu Lys Asp Ser Lys Leu Thr Leu Val Leu Thr
180 185 190
Lys Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Ile Val Asn
195 200 205
Gly Lys Phe Lys Ile Leu Asn Asn Lys Thr Asp Pro Ser Leu Pro Lys
210 215 220
Ser Phe Asn Ile Lys Leu Leu Phe Asp Gln Asn Gly Val Leu Leu Glu
225 230 235 240
Asn Ser Asn Ile Glu Lys Gln Tyr Leu Asn Phe Arg Ser Gly Asp Ser
245 250 255
Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile Gly Phe Met Pro Asn Leu
260 265 270
Leu Ala Tyr Ala Lys Ala Thr Thr Asp Gln Ser Lys Ile Tyr Ala Arg
275 280 285
Asn Thr Thr Tyr Gly Asn Ile Tyr Leu Asp Asn Gln Pro Tyr Asn Pro
290 295 300
Val Val Ile Lys Ile Thr Phe Asn Asn Glu Ala Asp Ser Ala Tyr Ser
305 310 315 320
Ile Thr Phe Asn Tyr Ser Trp Thr Lys Asp Tyr Asp Asn Ile Pro Phe
325 330 335

Asp Ser Thr Ser Phe Thr Ser
340

<210> 25
<211> 385
<212> PRT
<213> Human Adenovirus 30 Fiber Protein

<220>
<221> Xaa
<222> (23)..(97)
<223> Can be any amino acid

<400> 25

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met
1				5					10					15	
Lys	Arg	Ala	Arg	Pro	Ser	Xaa	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr
			20					25					30		
Gly	Tyr	Ala	Arg	Asn	Gln	Asn	Ile	Pro	Phe	Xaa	Thr	Pro	Pro	Phe	Val
		35					40					45			
Xaa	Ser	Asp	Gly	Phe	Lys	Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys
	50					55					60				
Leu	Ala	Asp	Pro	Ile	Ala	Ile	Thr	Asn	Gly	Asp	Tyr	Ser	Leu	Lys	Val
65					70					75					80
Gly	Gly	Gly	Leu	Thr	Val	Glu	Gln	Asp	Ser	Gly	Asn	Leu	Ser	Val	Asn
				85					90					95	
Xaa	Lys	Ala	Pro	Leu	Gln	Val	Gly	Thr	Asp	Lys	Lys	Leu	Glu	Leu	Ala
			100					105					110		
Leu	Ala	Pro	Pro	Phe	Asp	Val	Arg	Asp	Asn	Lys	Leu	Ala	Ile	Leu	Val
		115					120					125			
Gly	Asp	Gly	Leu	Lys	Val	Ile	Asp	Arg	Ser	Ile	Ser	Asp	Leu	Pro	Gly
	130					135					140				
Leu	Leu	Asn	Tyr	Leu	Val	Val	Xaa	Thr	Gly	Lys	Gly	Ile	Gly	Asn	Glu
145					150					155					160
Glu	Leu	Lys	Asn	Asp	Asp	Gly	Ser	Asn	Lys	Gly	Val	Gly	Leu	Cys	Val
			165						170					175	
Arg	Ile	Gly	Glu	Gly	Gly	Gly	Leu	Thr	Xaa	Asp	Asp	Lys	Gly	Tyr	Leu
			180					185					190		
Val	Ala	Trp	Asn	Asn	Lys	His	Asp	Ile	Arg	Thr	Leu	Trp	Thr	Thr	Leu
		195					200					205			
Asp	Pro	Ser	Pro	Asn	Cys	Lys	Ile	Asp	Glu	Lys	Asp	Ser	Lys	Leu	Thr
	210					215					220				
Leu	Val	Leu	Thr	Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Asn	Val	Ser	Leu
225					230					235					240
Ile	Ile	Val	Asn	Gly	Lys	Phe	Lys	Ile	Leu	Asn	Asn	Lys	Thr	Asp	Pro
			245						250					255	

Ser Leu Pro Lys Ser Phe Asn Ile Lys Leu Leu Phe Asp Gln Asn Gly
 260 265 270
 Val Leu Leu Glu Asn Ser Asn Ile Glu Lys Gln Tyr Leu Asn Phe Arg
 275 280 285
 Ser Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile Gly Phe
 290 295 300
 Met Pro Asn Leu Leu Ala Tyr Ala Lys Ala Thr Thr Asp Gln Ser Lys
 305 310 315 320
 Thr Tyr Ala Arg Asn Thr Ile Tyr Gly Asn Ile Tyr Leu Asp Asn Gln
 325 330 335
 Pro Tyr Asn Pro Val Val Ile Lys Ile Thr Phe Asn Asn Glu Ala Asp
 340 345 350
 Ser Ala Tyr Ser Ile Thr Phe Asn Tyr Ser Trp Thr Lys Asp Tyr Asp
 355 360 365
 Asn Ile Pro Phe Asp Ser Thr Ser Phe Thr Phe Ser Tyr Ile Ala Gln
 370 375 380

Glu
385

<210> 26
 <211> 389
 <212> PRT
 <213> Human Adenovirus 32 Fiber Protein
 <400> 26

Ser Cys Ser Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met Lys
 1 5 10 15
 Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr Gly
 20 25 30
 Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val Ser
 35 40 45
 Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys Leu
 50 55 60
 Ala Asp Pro Ile Thr Ile Ala Asn Gly Asn Val Ser Leu Lys Val Gly
 65 70 75 80
 Gly Gly Leu Thr Leu Glu Gln Asp Ser Gly Lys Leu Ile Val Asn Pro
 85 90 95
 Lys Ala Pro Leu Gln Val Ala Asn Asp Lys Leu Glu Leu Ser Tyr Ala
 100 105 110
 Asp Pro Phe Glu Thr Ser Ala Asn Lys Leu Ser Leu Lys Val Gly His
 115 120 125
 Gly Leu Lys Val Leu Asp Glu Lys Asn Ala Gly Gly Leu Lys Asp Leu
 130 135 140
 Ile Gly Thr Leu Val Val Leu Thr Asp Lys Gly Ile Gly Val Glu Glu
 145 150 155 160
 Leu Lys Asn Ala Asp Asn Thr Asn Arg Gly Val Gly Ile Asn Val Arg

165					170					175					
Leu	Gly	Lys	Asp	Gly	Gly	Leu	Ser	Phe	Asp	Lys	Lys	Gly	Asp	Leu	Val
			180					185					190		
Ala	Trp	Asn	Lys	His	Asp	Asp	Arg	Arg	Thr	Leu	Trp	Thr	Thr	Pro	Asp
		195					200					205			
Pro	Ser	Pro	Asn	Cys	Thr	Thr	Asp	Glu	Glu	Arg	Asp	Ser	Lys	Leu	Thr
	210					215					220				
Leu	Val	Leu	Thr	Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Asn	Val	Ser	Leu
225					230					235					240
Leu	Val	Val	Lys	Gly	Lys	Phe	Ser	Asn	Ile	Asn	Asn	Asn	Thr	Asn	Pro
				245					250					255	
Thr	Asp	Lys	Lys	Ile	Thr	Val	Lys	Leu	Leu	Phe	Asn	Glu	Lys	Gly	Val
			260					265					270		
Leu	Met	Asp	Ser	Ser	Ser	Leu	Lys	Lys	Glu	Tyr	Trp	Asn	Tyr	Arg	Asn
		275					280					285			
Asp	Asn	Ser	Thr	Ser	Gln	Ala	Tyr	Asp	Asn	Ala	Val	Pro	Phe	Met	Pro
	290					295					300				
Asn	Ile	Lys	Ala	Tyr	Pro	Lys	Pro	Thr	Thr	Asp	Thr	Ser	Ala	Lys	Pro
305					310					315					320
Glu	Asp	Lys	Lys	Ser	Ala	Ala	Lys	Arg	Tyr	Ile	Val	Ser	Asn	Val	Tyr
				325					330					335	
Ile	Gly	Gly	Leu	Pro	Asp	Lys	Thr	Val	Val	Ile	Thr	Ile	Lys	Leu	Asn
			340					345					350		
Ala	Glu	Thr	Glu	Ser	Ala	Tyr	Ser	Met	Thr	Phe	Glu	Phe	Thr	Trp	Ala
		355					360					365			
Lys	Thr	Phe	Glu	Asn	Leu	Gln	Phe	Asp	Ser	Ser	Ser	Phe	Thr	Phe	Ser
	370					375					380				
Tyr	Ile	Ala	Gln	Glu											
385															

<210> 27
 <211> 391
 <212> PRT
 <213> Human Adenovirus 33 Fiber Protein

<400> 27

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met
1				5					10					15	
Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr
		20					25					30			
Gly	Tyr	Ala	Arg	Asn	Gln	Asn	Ile	Pro	Phe	Leu	Thr	Pro	Pro	Phe	Val
		35				40					45				
Ser	Ser	Asp	Gly	Phe	Lys	Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys
	50					55				60					
Leu	Ala	Asp	Pro	Ile	Thr	Ile	Thr	Asn	Gly	Asp	Val	Ser	Leu	Lys	Val
65					70				75					80	

Gly Gly Gly Leu Thr Leu Gln Glu Gly Ser Leu Thr Val Asn Pro Lys
 85 90 95
 Ala Pro Leu Gln Leu Ala Asn Asp Lys Lys Leu Glu Leu Val Tyr Asp
 100 105 110
 Asp Pro Phe Glu Val Ser Thr Asn Lys Leu Ser Leu Lys Val Gly His
 115 120 125
 Gly Leu Lys Val Leu Asp Asp Lys Ser Ala Gly Gly Leu Gln Asp Leu
 130 135 140
 Ile Gly Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Ile Glu Asn
 145 150 155 160
 Leu Gln Asn Asp Asp Gly Ser Ser Arg Gly Val Gly Ile Asn Val Arg
 165 170 175
 Leu Gly Thr Asp Gly Gly Leu Ser Phe Asp Arg Lys Gly Glu Leu Val
 180 185 190
 Ala Trp Asn Arg Lys Asp Asp Arg Arg Thr Leu Trp Thr Thr Pro Asp
 195 200 205
 Pro Ser Pro Asn Cys Lys Ala Glu Thr Glu Lys Asp Ser Lys Leu Thr
 210 215 220
 Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Thr Val Ser Ile
 225 230 235 240
 Ile Val Leu Lys Gly Lys Tyr Glu Phe Val Lys Lys Glu Thr Glu Pro
 245 250 255
 Lys Ser Phe Asp Val Lys Leu Leu Phe Asp Ser Lys Gly Val Leu Leu
 260 265 270
 Pro Thr Ser Asn Leu Ser Lys Glu Tyr Trp Asn Tyr Arg Ser Tyr Asp
 275 280 285
 Asn Asn Ile Gly Thr Pro Tyr Glu Asn Ala Val Pro Phe Met Pro Asn
 290 295 300
 Leu Lys Ala Tyr Pro Lys Pro Thr Lys Thr Ala Ser Asp Lys Ala Glu
 305 310 315 320
 Asn Lys Ile Ser Ser Ala Lys Asn Lys Ile Val Ser Asn Phe Tyr Phe
 325 330 335
 Gly Gly Gln Ala Tyr Gln Pro Gly Thr Ile Ile Ile Lys Phe Asn Glu
 340 345 350
 Glu Ile Asp Glu Thr Cys Ala Tyr Ser Ile Thr Phe Asn Phe Gly Trp
 355 360 365
 Gly Lys Val Tyr Asp Asn Pro Phe Pro Phe Asp Thr Thr Ser Phe Thr
 370 375 380
 Phe Ser Tyr Ile Ala Gln Glu
 385 390

<210> 28
 <211> 338
 <212> PRT
 <213> Human Adenovirus 34 Fiber Protein

<400> 28

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met		
1				5					10					15			
Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr		
			20					25					30				
Glu	Asp	Glu	Ser	Thr	Ser	Gln	His	Pro	Phe	Ile	Asn	Pro	Gly	Phe	Ile		
		35					40					45					
Ser	Pro	Asn	Gly	Phe	Thr	Gln	Ser	Pro	Asp	Gly	Val	Leu	Thr	Leu	Lys		
	50					55					60						
Cys	Leu	Thr	Pro	Leu	Thr	Thr	Thr	Gly	Gly	Ser	Leu	Gln	Leu	Lys	Val		
65					70					75				80			
Gly	Gly	Gly	Leu	Thr	Val	Asp	Asp	Thr	Asp	Gly	Thr	Leu	Gln	Lys	Asn		
			85						90					95			
Ile	Arg	Ala	Thr	Thr	Pro	Ile	Thr	Lys	Asn	Asn	His	Ser	Val	Glu	Leu		
			100					105					110				
Thr	Ile	Gly	Asn	Gly	Leu	Glu	Thr	Gln	His	Asn	Lys	Leu	Cys	Ala	Lys		
		115					120					125					
Leu	Gly	Asn	Gly	Asn	Leu	Lys	Phe	Asn	Asn	Gly	Asp	Ile	Cys	Ile	Lys		
	130					135					140						
Asp	Ser	Ile	Asn	Thr	Leu	Trp	Thr	Gly	Ile	Asn	Pro	Pro	Asn	Cys	Gln		
145					150					155					160		
Ile	Val	Glu	Asn	Thr	Asn	Thr	Asn	Asp	Gly	Lys	Leu	Thr	Leu	Val	Leu		
			165						170					175			
Val	Lys	Asn	Gly	Gly	Leu	Val	Asn	Gly	Tyr	Val	Ser	Leu	Val	Gly	Val		
			180					185					190				
Ser	Asp	Thr	Val	Asn	Gln	Met	Phe	Thr	Gln	Lys	Thr	Ala	Asn	Ile	Gln		
		195					200					205					
Leu	Arg	Leu	Tyr	Phe	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Thr	Asp	Glu	Ser		
	210					215					220						
Asp	Leu	Lys	Ile	Pro	Leu	Lys	Asn	Lys	Ser	Ser	Thr	Ala	Thr	Ser	Glu		
225					230					235					240		
Thr	Val	Ala	Ser	Ser	Lys	Ala	Phe	Met	Pro	Ser	Thr	Thr	Ala	Tyr	Pro		
				245					250					255			
Phe	Asn	Thr	Thr	Thr	Arg	Asp	Ser	Glu	Asn	Tyr	Ile	His	Gly	Ile	Cys		
			260					265					270				
Tyr	Tyr	Met	Thr	Ser	Tyr	Asp	Arg	Ser	Leu	Phe	Pro	Leu	Asn	Ile	Ser		
		275					280					285					
Ile	Met	Leu	Asn	Ser	Arg	Met	Ile	Ser	Ser	Asn	Val	Ala	Tyr	Ala	Ile		
	290					295					300						
Gln	Phe	Glu	Trp	Asn	Leu	Asn	Ala	Ser	Glu	Ser	Pro	Glu	Lys	Gln	His		
305					310					315					320		
Met	Thr	Leu	Thr	Thr	Ser	Pro	Phe	Phe	Phe	Ser	Tyr	Ile	Ile	Glu	Asp		
				325					330					335			

Asp Asn

<210> 29
 <211> 338
 <212> PRT
 <213> Human Adenovirus 35 Fiber Protein

<400> 29

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met
1				5					10					15	
Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr
			20					25					30		
Glu	Asp	Glu	Ser	Thr	Ser	Gln	His	Pro	Phe	Ile	Asn	Pro	Gly	Phe	Ile
		35					40					45			
Ser	Pro	Asn	Gly	Phe	Thr	Gln	Ser	Pro	Asp	Gly	Val	Leu	Thr	Leu	Lys
	50					55					60				
Cys	Leu	Thr	Pro	Leu	Thr	Thr	Thr	Gly	Gly	Ser	Leu	Gln	Leu	Lys	Val
65					70				75					80	
Gly	Gly	Gly	Leu	Thr	Val	Asp	Asp	Thr	Asp	Gly	Thr	Leu	Gln	Glu	Asn
				85					90					95	
Ile	Arg	Ala	Thr	Ala	Pro	Ile	Thr	Lys	Asn	Asn	His	Ser	Val	Glu	Leu
			100					105					110		
Ser	Ile	Gly	Asn	Gly	Leu	Glu	Thr	Gln	Asn	Asn	Lys	Leu	Cys	Ala	Lys
		115					120					125			
Leu	Gly	Asn	Gly	Leu	Lys	Phe	Asn	Asn	Gly	Asp	Ile	Cys	Ile	Lys	Asp
	130					135					140				
Ser	Ile	Asn	Thr	Leu	Trp	Thr	Gly	Ile	Asn	Pro	Pro	Pro	Asn	Cys	Gln
145					150					155					160
Ile	Val	Glu	Asn	Thr	Asn	Thr	Asn	Asp	Gly	Lys	Leu	Thr	Leu	Val	Leu
				165					170					175	
Val	Lys	Asn	Gly	Gly	Leu	Val	Asn	Gly	Tyr	Val	Ser	Leu	Val	Gly	Val
			180					185					190		
Ser	Asp	Thr	Val	Asn	Gln	Met	Phe	Thr	Gln	Lys	Thr	Ala	Asn	Ile	Gln
		195					200					205			
Leu	Arg	Leu	Tyr	Phe	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Thr	Glu	Glu	Ser
	210					215					220				
Asp	Leu	Lys	Ile	Pro	Leu	Lys	Asn	Lys	Ser	Ser	Thr	Ala	Thr	Ser	Glu
225					230					235					240
Thr	Val	Ala	Ser	Ser	Lys	Ala	Phe	Met	Pro	Ser	Thr	Thr	Ala	Tyr	Pro
				245					250					255	
Phe	Asn	Thr	Thr	Thr	Arg	Asp	Ser	Glu	Asn	Tyr	Ile	His	Gly	Ile	Cys
			260					265					270		
Tyr	Tyr	Met	Thr	Ser	Tyr	Asp	Arg	Ser	Leu	Phe	Pro	Leu	Asn	Ile	Ser
		275					280					285			

Ile Met Leu Asn Ser Arg Met Ile Ser Ser Asn Val Ala Tyr Ala Ile
290 295 300

Gln Phe Glu Trp Asn Leu Asn Ala Ser Glu Ser Pro Glu Ser Asn Ile
305 310 315 320

Met Thr Leu Thr Thr Ser Pro Phe Phe Phe Ser Tyr Ile Thr Glu Asp
325 330 335

Asp Asn

<210> 30

<211> 391

<212> PRT

<213> Human Adenovirus 36 Fiber Protein

<400> 30

Ser Cys Ser Cys Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
1 5 10 15

Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr
20 25 30

Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val
35 40 45

Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
50 55 60

Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asp Val Ser Leu Lys Val
65 70 75 80

Gly Gly Gly Leu Thr Val Glu Gln Asp Ser Gly Lys Leu Lys Val Asn
85 90 95

Pro Lys Ile Pro Leu Gln Val Val Asn Lys Gln Leu Glu Leu Ala Thr
100 105 110

Asp Lys Pro Phe Lys Ile Glu Asn Asn Lys Leu Ala Leu Asp Val Gly
115 120 125

His Gly Leu Lys Val Ile Asp Lys Thr Ile Ser Asp Leu Gln Gly Leu
130 135 140

Val Gly Lys Leu Val Val Leu Thr Gly Val Gly Ile Gly Thr Glu Thr
145 150 155 160

Leu Lys Asp Lys Asn Asp Lys Val Ile Gly Ser Ala Val Asn Val Arg
165 170 175

Leu Gly Lys Asp Gly Gly Leu Asp Phe Asn Lys Lys Gly Asp Leu Val
180 185 190

Ala Trp Asn Arg Tyr Asp Asp Arg Arg Thr Leu Trp Thr Thr Pro Asp
195 200 205

Pro Ser Pro Asn Cys Lys Val Tyr Glu Ala Lys Ser Lys Leu Thr Leu
210 215 220

Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Ser Val Ala Leu Leu
225 230 235 240

Ile Val Lys Gly Lys Tyr Gln Thr Ile Ser Glu Ser Thr Ile Pro Lys

245										250					255				
Asp	Gln	Arg	Asn	Phe	Ser	Val	Lys	Leu	Met	Phe	Asp	Glu	Lys	Gly	Lys				
			260					265					270						
Leu	Leu	Asp	Lys	Ser	Ser	Leu	Asp	Lys	Glu	Tyr	Trp	Asn	Phe	Arg	Ser				
		275					280					285							
Asn	Asp	Ser	Val	Val	Gly	Thr	Ala	Tyr	Asp	Asn	Ala	Val	Pro	Phe	Met				
	290					295					300								
Pro	Asn	Leu	Lys	Ala	Tyr	Pro	Lys	Asn	Thr	Thr	Thr	Ser	Ser	Thr	Asn				
305					310					315					320				
Pro	Asp	Asp	Lys	Ile	Ser	Ala	Gly	Lys	Lys	Asn	Ile	Val	Ser	Asn	Val				
				325					330					335					
Tyr	Leu	Glu	Gly	Arg	Val	Tyr	Gln	Pro	Val	Ala	Leu	Thr	Val	Lys	Phe				
			340					345					350						
Asn	Ser	Glu	Asn	Asp	Cys	Ala	Tyr	Ser	Ile	Thr	Phe	Asp	Phe	Val	Trp				
		355					360					365							
Ser	Lys	Thr	Tyr	Glu	Ser	Pro	Val	Ala	Phe	Asp	Ser	Ser	Ser	Phe	Thr				
	370					375					380								
Phe	Ser	Tyr	Ile	Ala	Gln	Glu													
385					390														

<210> 31
 <211> 381
 <212> PRT
 <213> Human Adenovirus 37 Fiber Protein

<400> 31

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met		
1				5					10					15			
Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr		
			20					25					30				
Gly	Tyr	Ala	Arg	Asn	Gln	Asn	Ile	Pro	Phe	Leu	Thr	Pro	Pro	Phe	Val		
		35					40					45					
Ser	Ser	Asp	Gly	Phe	Lys	Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys		
	50					55					60						
Leu	Ala	Asp	Pro	Ile	Thr	Ile	Thr	Asn	Gly	Asp	Val	Ser	Leu	Lys	Val		
65					70					75					80		
Gly	Gly	Gly	Leu	Thr	Leu	Gln	Asp	Gly	Ser	Leu	Thr	Val	Asn	Pro	Lys		
				85					90					95			
Ala	Pro	Leu	Gln	Val	Asn	Thr	Asp	Lys	Lys	Leu	Glu	Leu	Ala	Tyr	Asp		
			100					105					110				
Asn	Pro	Phe	Glu	Ser	Ser	Ala	Asn	Lys	Leu	Ser	Leu	Val	Gly	His	Gly		
		115					120					125					
Leu	Lys	Val	Leu	Asp	Glu	Lys	Ser	Ala	Ala	Gly	Leu	Lys	Asp	Leu	Ile		
	130					135					140						
Gly	Lys	Leu	Val	Val	Leu	Thr	Gly	Lys	Gly	Ile	Gly	Thr	Glu	Asn	Leu		
145					150					155					160		

Glu	Asn	Thr	Asp	Gly	Ser	Ser	Arg	Gly	Ile	Gly	Ile	Asn	Val	Arg	Ala	
				165					170					175		
Arg	Glu	Gly	Leu	Thr	Phe	Asp	Asn	Asp	Gly	Tyr	Leu	Val	Ala	Trp	Asn	
			180					185					190			
Pro	Lys	Tyr	Asp	Leu	Arg	Thr	Leu	Trp	Thr	Thr	Pro	Asp	Thr	Ser	Pro	
		195					200					205				
Asn	Cys	Thr	Ile	Ala	Gln	Asp	Lys	Asp	Ser	Lys	Leu	Thr	Leu	Val	Leu	
	210					215					220					
Thr	Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Asn	Val	Ser	Leu	Ile	Val	Val	
225					230					235					240	
Ala	Gly	Lys	Tyr	His	Ile	Ile	Asn	Asn	Lys	Thr	Asn	Pro	Lys	Ile	Lys	
				245					250					255		
Ser	Phe	Thr	Ile	Lys	Leu	Leu	Phe	Asn	Lys	Phe	Asn	Gly	Val	Leu	Leu	
			260					265					270			
Asp	Asn	Ser	Asn	Leu	Gly	Lys	Ala	Tyr	Trp	Asn	Phe	Arg	Ser	Gly	Asn	
		275					280					285				
Ser	Asn	Val	Ser	Thr	Ala	Tyr	Glu	Lys	Ala	Ile	Gly	Phe	Met	Pro	Asn	
	290					295					300					
Leu	Val	Ala	Val	Ser	Lys	Pro	Ser	Asn	Ser	Lys	Lys	Tyr	Ala	Arg	Asp	
305					310					315					320	
Ile	Val	Tyr	Gly	Asn	Ile	Thr	Tyr	Leu	Gly	Gly	Lys	Pro	Asp	Gln	Pro	
				325					330					335		
Gly	Val	Ile	Lys	Thr	Thr	Phe	Asn	Gln	Glu	Thr	Gly	Cys	Glu	Tyr	Ser	
			340					345					350			
Ile	Thr	Phe	Asn	Phe	Ser	Trp	Ser	Lys	Thr	Tyr	Glu	Asn	Val	Glu	Phe	
		355					360					365				
Glu	Thr	Thr	Ser	Phe	Thr	Phe	Ser	Tyr	Ile	Ala	Gln	Glu				
	370					375					380					

<210> 32
 <211> 391
 <212> PRT
 <213> Human Adenovirus 38 Fiber Protein

<220>
 <221> Xaa
 <222> (49)..(192)
 <223> Can be any amino acid

<400> 32

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met	
1				5					10					15		
Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr	
		20					25					30				
Gly	Tyr	Ala	Arg	Asn	Gln	Asn	Ile	Pro	Phe	Xaa	Thr	Pro	Pro	Phe	Val	
		35				40						45				

Xaa	Ser	Asp	Gly	Phe	Gln	Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys	50	55	60
Leu	Ala	Asp	Pro	Ile	Thr	Ile	Ala	Asn	Gly	Asn	Val	Ser	Leu	Lys	Val	65	70	75
Gly	Gly	Gly	Leu	Thr	Leu	Glu	Gln	Asp	Ser	Gly	Lys	Leu	Ile	Val	Asn	85	90	95
Xaa	Lys	Ala	Pro	Leu	Gln	Val	Ala	Asn	Asp	Lys	Leu	Glu	Leu	Ser	Tyr	100	105	110
Ala	Asp	Pro	Phe	Glu	Thr	Ser	Ala	Asn	Lys	Leu	Ser	Leu	Lys	Val	Gly	115	120	125
His	Gly	Leu	Lys	Val	Leu	Asp	Glu	Lys	Asn	Ala	Gly	Gly	Leu	Lys	Asp	130	135	140
Leu	Ile	Gly	Thr	Leu	Val	Val	Leu	Thr	Gly	Lys	Gly	Ile	Gly	Val	Glu	145	150	155
Glu	Leu	Lys	Asn	Ala	Asp	Asn	Thr	Asn	Arg	Gly	Val	Gly	Ile	Asn	Val	165	170	175
Arg	Leu	Gly	Lys	Asp	Gly	Gly	Leu	Ser	Phe	Asp	Lys	Lys	Gly	Asp	Xaa	180	185	190
Val	Ala	Trp	Asn	Lys	His	Asp	Asp	Arg	Arg	Thr	Leu	Trp	Thr	Thr	Pro	195	200	205
Asp	Pro	Ser	Pro	Asn	Cys	Thr	Ile	Asp	Glu	Glu	Arg	Asp	Ser	Lys	Leu	210	215	220
Thr	Leu	Val	Leu	Thr	Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Asn	Val	Ser	225	230	235
Leu	Leu	Val	Val	Lys	Gly	Lys	Phe	Ser	Asn	Ile	Asn	Asn	Asn	Thr	Asn	245	250	255
Pro	Thr	Asp	Lys	Lys	Ile	Thr	Val	Lys	Leu	Leu	Phe	Asn	Glu	Lys	Gly	260	265	270
Val	Leu	Met	Asp	Ser	Ser	Ser	Leu	Lys	Lys	Glu	Tyr	Trp	Asn	Tyr	Arg	275	280	285
Asn	Asp	Asn	Ser	Thr	Val	Ser	Gln	Ala	Tyr	Asp	Asn	Ala	Val	Pro	Phe	290	295	300
Met	Pro	Asn	Ile	Lys	Ala	Tyr	Pro	Lys	Pro	Thr	Thr	Asp	Thr	Ser	Ala	305	310	315
Lys	Pro	Glu	Asp	Lys	Lys	Ser	Ala	Ala	Lys	Arg	Tyr	Thr	Val	Ser	Asn	325	330	335
Val	Tyr	Ile	Gly	Gly	Leu	Pro	Asp	Lys	Thr	Val	Val	Ile	Thr	Ile	Lys	340	345	350
Leu	Asn	Ala	Glu	Thr	Glu	Ser	Ala	Tyr	Ser	Met	Thr	Phe	Glu	Phe	Thr	355	360	365
Trp	Ala	Lys	Thr	Phe	Glu	Asn	Leu	Gln	Phe	Asp	Ser	Ser	Ser	Phe	Thr	370	375	380
Phe	Ser	Tyr	Ile	Ala	Gln	Glu										385	390	

<210> 33
 <211> 338
 <212> PRT
 <213> Human Adenovirus 39 Fiber Protein

<400> 33

Ile	Arg	Ile	Ser	Pro	Ser	Ser	Leu	Pro	Pro	Leu	Ser	Pro	Pro	Met	Asp	1	5	10	15
Ser	Lys	Thr	Ser	Pro	Leu	Gly	Cys	Tyr	His	Ser	Asn	Trp	Leu	Thr	Gln	20	25	30	
Ser	Pro	Ser	Pro	Met	Gly	Met	Ser	His	Arg	Trp	Glu	Gly	Gly	Ser	Pro	35	40	45	
Trp	Gln	Glu	Gly	Thr	Gly	Asp	Leu	Lys	Val	Asn	Ala	Lys	Ser	Pro	Leu	50	55	60	
Gln	Val	Ala	Thr	Asn	Lys	Gln	Leu	Glu	Ile	Ala	Leu	Ala	Lys	Pro	Phe	65	70	75	80
Glu	Glu	Lys	Asp	Gly	Lys	Leu	Ala	Leu	Lys	Ile	Gly	His	Gly	Leu	Ala	85	90	95	
Val	Val	Asp	Glu	Asn	His	Thr	His	Leu	Gln	Ser	Leu	Ile	Gly	Thr	Leu	100	105	110	
Val	Ile	Leu	Thr	Gly	Lys	Gly	Ile	Gly	Thr	Gly	Arg	Ala	Glu	Ser	Gly	115	120	125	
Gly	Thr	Ile	Asp	Val	Arg	Leu	Gly	Ser	Gly	Gly	Gly	Leu	Ser	Phe	Asp	130	135	140	
Lys	Asp	Gly	Asn	Leu	Val	Ala	Trp	Asn	Lys	Asp	Asp	Asp	Arg	Arg	Thr	145	150	155	160
Leu	Trp	Thr	Thr	Pro	Asp	Pro	Ser	Pro	Asn	Cys	Lys	Ile	Asp	Gln	Asp	165	170	175	
Lys	Asp	Ser	Lys	Leu	Thr	Phe	Val	Leu	Thr	Lys	Cys	Gly	Ser	Gln	Ile	180	185	190	
Leu	Ala	Asn	Met	Ser	Leu	Leu	Val	Val	Lys	Gly	Lys	Phe	Ser	Met	Ile	195	200	205	
Asn	Asn	Lys	Val	Asn	Gly	Thr	Asp	Asp	Tyr	Lys	Lys	Phe	Thr	Ile	Lys	210	215	220	
Leu	Leu	Phe	Asp	Glu	Lys	Gly	Val	Leu	Leu	Lys	Asp	Ser	Ser	Leu	Asp	225	230	235	240
Lys	Glu	Tyr	Trp	Asn	Tyr	Arg	Ser	Asn	Asn	Asn	Asn	Val	Gly	Ser	Ala	245	250	255	
Tyr	Glu	Glu	Ala	Val	Gly	Phe	Met	Pro	Ser	Thr	Thr	Ala	Tyr	Pro	Lys	260	265	270	
Pro	Pro	Thr	Pro	Pro	Thr	Asn	Pro	Thr	Thr	Pro	Leu	Glu	Lys	Ser	Gln	275	280	285	
Ala	Lys	Asn	Lys	Tyr	Val	Ser	Asn	Val	Tyr	Leu	Gly	Gly	Gln	Ala	Gly	290	295	300	

Asn Pro Val Ala Thr Thr Val Ser Phe Asn Lys Glu Thr Gly Cys Thr
 305 310 315 320

Tyr Ser Ile Thr Phe Asp Phe Ala Trp Asn Lys Thr Tyr Glu Asn Val
 325 330 335

Gln Cys

<210> 34
 <211> 378
 <212> PRT
 <213> Human Adenovirus 42 Fiber Protein

<220>
 <221> Xaa
 <222> (237)..(237)
 <223> Can be any amino acid

<400> 34

Ser Cys Ser Cys Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
 1 5 10 15

Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr
 20 25 30

Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val
 35 40 45

Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
 50 55 60

Leu Ala Asn Pro Ile Ala Ile Thr Asn Gly Asp Val Ser Leu Lys Val
 65 70 75 80

Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Ile Asp
 85 90 95

Thr Lys Thr Pro Leu Gln Val Ala Asn Asn Lys Leu Glu Leu Ala Phe
 100 105 110

Asp Ala Pro Leu Tyr Glu Lys Asn Gly Lys Leu Ala Leu Lys Thr Gly
 115 120 125

His Gly Leu Ala Val Leu Thr Lys Asp Ile Gly Ile Pro Glu Leu Ile
 130 135 140

Gly Ser Leu Val Ile Leu Thr Gly Lys Gly Ile Gly Thr Gly Thr Val
 145 150 155 160

Ala Gly Gly Gly Thr Ile Asp Val Arg Leu Gly Asp Asp Gly Gly Leu
 165 170 175

Ser Phe Asp Lys Lys Gly Asp Leu Val Ala Trp Asn Lys Lys Asn Asp
 180 185 190

Arg Arg Thr Leu Trp Thr Thr Pro Asp Pro Ser Pro Asn Cys Arg Val
 195 200 205

Ser Glu Asp Lys Asp Ser Lys Leu Thr Leu Ile Leu Thr Lys Cys Gly
 210 215 220

Ser Gln Ile Leu Ala Ser Phe Ser Leu Leu Val Val Xaa Gly Thr Tyr

225		230		235		240
Thr Thr Val Asp	Lys Asn Thr Thr Asn	Lys Gln Phe Ser Ile	Lys Leu			
	245	250	255			
Leu Phe Asp	Ala Asn Gly Lys Leu	Lys Ser Glu Ser Asn	Leu Ser Gln			
	260	265	270			
Tyr Trp Asn	Tyr Arg Ser Asp	Asn Ser Val Val Ser	Thr Pro Tyr Asp			
	275	280	285			
Asn Ala Val	Pro Phe Met	Pro Asn Thr Ala Tyr	Pro Lys Ile Ile Asn			
	290	295	300			
Ser Thr Thr	Asp Pro Glu Asn Lys Lys	Ser Ala Lys Lys	Thr Ile Val			
	305	310	315			320
Gly Asn Val	Tyr Leu Glu Gly Asn	Ala Gly Gln Pro Val	Ala Val Ala			
	325	330	335			
Ile Ser Phe	Asn Lys Glu Thr Thr	Ala Asp Tyr Ser Ile	Thr Phe Asp			
	340	345	350			
Phe Ala Trp	Ser Lys Ala Tyr Glu Thr	Pro Val Pro Phe	Asp Thr Ser			
	355	360	365			
Ser Met Thr	Phe Ser Tyr Ile	Ala Gln Glu				
	370	375				

<210> 35
 <211> 328
 <212> PRT
 <213> Human Adenovirus 43 Fiber Protein

<220>
 <221> Xaa
 <222> (4)..(233)
 <223> Can be any amino acid

<400> 35

Asn Ile Pro	Xaa Leu Thr	Pro Pro Phe	Val Ser Ser	Asp Gly Phe	Lys
1	5	10	15		
Asn Phe Pro	Pro Gly Val	Leu Ser Leu	Lys Leu Ala	Asp Pro Ile	Thr
	20	25	30		
Ile Thr Asn	Gly Asp Val	Ser Leu Lys	Val Gly Gly	Gly Leu Thr	Val
	35	40	45		
Glu Lys Glu	Ser Gly Asn	Leu Thr Val	Asn Pro Lys	Ala Pro Leu	Gln
	50	55	60		
Val Ala Lys	Gly Gln Leu	Glu Leu Ala	Tyr Asp Ser	Pro Phe Asp	Val
	65	70	75		80
Lys Asn Asn	Met Leu Thr	Leu Lys Ala	Gly His Gly	Leu Ala Val	Val
	85	90	95		
Thr Lys Asp	Asn Thr Asp	Leu Gln Pro	Leu Met Gly	Thr Leu Val	Val
	100	105	110		
Leu Thr Gly	Lys Gly Ile	Gly Thr Gly	Thr Ser Ala	His Gly Gly	Thr
	115	120	125		

Ile Asp Val Arg Ile Gly Lys Asn Gly Ser Leu Ala Phe Asp Lys Asp
 130 135 140
 Gly Asp Leu Val Ala Trp Asp Lys Glu Asn Asp Arg Arg Thr Leu Trp
 145 150 155 160
 Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Met Ser Glu Ala Lys Asp
 165 170 175
 Ser Lys Leu Thr Leu Ile Leu Thr Lys Cys Gly Ser Gln Ile Leu Gly
 180 185 190
 Ser Val Ser Leu Leu Ala Val Lys Gly Glu Tyr Gln Asn Met Thr Ala
 195 200 205
 Asn Thr Lys Lys Asn Val Lys Ile Thr Leu Leu Phe Asp Ala Asn Gly
 210 215 220
 Val Leu Leu Ala Gly Ser Ser Xaa Xaa Lys Glu Tyr Trp Asn Phe Arg
 225 230 235 240
 Ser Asn Asp Ser Thr Val Ser Gly Asn Tyr Glu Asn Ala Val Gln Phe
 245 250 255
 Met Pro Asn Ile Thr Ala Tyr Lys Pro Thr Asn Ser Lys Ser Tyr Ala
 260 265 270
 Arg Ser Val Ile Phe Gly Asn Val Tyr Ile Asp Ala Lys Pro Tyr Asn
 275 280 285
 Pro Val Val Ile Lys Ile Ser Phe Asn Gln Glu Thr Gln Asn Asn Cys
 290 295 300
 Val Tyr Ser Ile Ser Phe Asp Tyr Thr Leu Ser Lys Asp Tyr Pro Asn
 305 310 315 320
 Met Gln Phe Asp Val Thr Leu Ser
 325

<210> 36
 <211> 341
 <212> PRT
 <213> Human Adenovirus 44 Fiber Protein
 <400> 36

Asn Ile Pro Phe Leu Thr Pro Pro Phe Val Ser Ser Asp Gly Phe Gln
 1 5 10 15
 Asn Phe Pro Pro Gly Val Leu Ser Leu Lys Leu Ala Asp Pro Ile Thr
 20 25 30
 Ile Thr Asn Gly Asn Val Ser Leu Lys Val Gly Gly Gly Leu Thr Leu
 35 40 45
 Gln Glu Gly Thr Gly Asp Leu Lys Val Asn Ala Lys Ser Pro Leu Gln
 50 55 60
 Val Ala Thr Asn Lys Gln Leu Glu Ile Ala Leu Ala Lys Pro Phe Glu
 65 70 75 80
 Glu Lys Asp Gly Lys Leu Ala Leu Lys Ile Gly His Gly Leu Ala Val
 85 90 95

Val Asp Glu Asn His Thr His Leu Gln Ser Leu Ile Gly Thr Leu Val
 100 105 110
 Ile Leu Thr Gly Lys Gly Ile Gly Thr Gly Ser Ala Glu Ser Gly Gly
 115 120 125
 Thr Ile Asp Val Arg Leu Gly Ser Gly Gly Gly Leu Ser Phe Asp Lys
 130 135 140
 Asp Gly Asn Leu Val Ala Trp Asn Lys Asp Asp Arg Arg Thr Leu
 145 150 155 160
 Trp Thr Thr Pro Asp Pro Ser Pro Asn Cys Lys Ile Asp Gln Asp Lys
 165 170 175
 Asp Ser Lys Leu Thr Phe Val Leu Thr Lys Cys Gly Ser Gln Ile Leu
 180 185 190
 Ala Asn Met Ser Leu Leu Val Val Lys Gly Lys Phe Ser Met Ile Asn
 195 200 205
 Asn Lys Val Asn Gly Thr Asp Asp Tyr Lys Lys Phe Thr Ile Lys Leu
 210 215 220
 Leu Phe Asp Glu Lys Gly Val Leu Leu Lys Asp Ser Ser Leu Asp Lys
 225 230 235 240
 Glu Tyr Trp Asn Tyr Arg Ser Asn Asn Asn Val Gly Ser Ala Tyr
 245 250 255
 Glu Glu Ala Val Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Lys Pro
 260 265 270
 Pro Thr Pro Pro Thr Asn Pro Thr Thr Pro Leu Glu Lys Ser Gln Ala
 275 280 285
 Lys Asn Lys Tyr Val Ser Asn Val Tyr Leu Gly Gly Gln Ala Gly Asn
 290 295 300
 Pro Val Ala Thr Thr Val Ser Phe Asn Lys Glu Thr Gly Cys Thr Tyr
 305 310 315 320
 Ser Ile Thr Phe Asp Phe Ala Trp Asn Lys Thr Tyr Glu Asn Val Gln
 325 330 335
 Phe Asp Ser Ser Phe
 340

<210> 37
 <211> 345
 <212> PRT
 <213> Human Adenovirus 45 Fiber Protein

<400> 37

Asn Ile Pro Phe Leu Thr Pro Pro Phe Val Ser Ser Asp Gly Phe Gln
 1 5 10 15
 Asn Phe Pro Pro Gly Val Leu Ser Leu Lys Leu Ala Asp Pro Ile Ala
 20 25 30
 Ile Thr Asn Gly Asp Val Ser Leu Lys Val Gly Gly Gly Leu Thr Val
 35 40 45
 Glu Lys Asp Ser Gly Asn Leu Lys Val Asn Pro Lys Ala Pro Leu Gln

50	55	60
Val Thr Thr Asp Lys Gln Leu Glu Ile Ala Leu Ala Tyr Pro Phe Glu 65 70 75 80		
Val Ser Asn Gly Lys Leu Gly Ile Lys Ala Gly His Gly Leu Lys Val 85 90 95		
Ile Asp Lys Ile Ala Gly Leu Glu Gly Leu Ala Gly Thr Leu Val Val 100 105 110		
Leu Thr Gly Lys Gly Ile Gly Thr Glu Asn Leu Glu Asn Ser Asp Gly 115 120 125		
Ser Ser Arg Gly Val Gly Ile Asn Val Arg Leu Ala Lys Asp Gly Val 130 135 140		
Leu Ala Phe Asp Lys Lys Gly Asp Leu Val Ala Trp Asn Lys His Asp 145 150 155 160		
Asp Arg Arg Thr Leu Trp Thr Thr Pro Asp Pro Ser Pro Asn Cys Thr 165 170 175		
Ile Asp Gln Glu Arg Asp Ser Lys Leu Thr Leu Val Leu Thr Lys Cys 180 185 190		
Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Leu Val Val Lys Gly Lys 195 200 205		
Phe Ser Asn Ile Asn Asn Asn Ala Asn Pro Thr Asp Lys Lys Ile Thr 210 215 220		
Val Lys Leu Leu Phe Asn Glu Lys Gly Val Leu Met Asp Ser Ser Thr 225 230 235 240		
Leu Lys Lys Glu Tyr Trp Asn Tyr Arg Asn Asp Asn Ser Thr Val Ser 245 250 255		
Gln Ala Tyr Asp Asn Ala Val Pro Phe Met Pro Asn Ile Lys Ala Tyr 260 265 270		
Pro Lys Pro Ser Thr Asp Thr Ser Ala Lys Pro Glu Asp Lys Lys Ser 275 280 285		
Ala Ala Lys Arg Tyr Ile Val Ser Asn Val Tyr Ile Gly Gly Leu Pro 290 295 300		
Asp Lys Thr Val Val Ile Thr Ile Lys Phe Asn Ala Glu Thr Glu Cys 305 310 315 320		
Ala Tyr Ser Ile Thr Phe Glu Phe Thr Trp Ala Lys Thr Phe Glu Asp 325 330 335		
Val Gln Cys Asp Ser Ser Ser Phe Thr 340 345		

<210> 38
 <211> 339
 <212> PRT
 <213> Human Adenovirus 46 Fiber Protein

<400> 38

Asn Ile Pro Phe Leu Thr Pro Pro Phe Val Ser Ser Asp Gly Phe Lys 1 5 10 15
--

Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys	Leu	Ala	Asp	Pro	Ile	Ala
			20					25					30		
Ile	Val	Asn	Gly	Asp	Val	Ser	Leu	Lys	Val	Gly	Gly	Gly	Leu	Thr	Leu
		35					40					45			
Gln	Glu	Gly	Asn	Leu	Thr	Val	Asp	Ala	Lys	Ala	Pro	Leu	Gln	Val	Ala
	50					55					60				
Asn	Asp	Lys	Leu	Glu	Leu	Ser	Tyr	Ala	Asp	Phe	Phe	Glu	Val	Lys	Asp
65					70					75					80
Thr	Lys	Leu	Gln	Leu	Lys	Val	Gly	His	Gly	Leu	Lys	Val	Ile	Asp	Glu
			85						90					95	
Lys	Thr	Ser	Ser	Gly	Leu	Gln	Ser	Leu	Ile	Gly	Asn	Leu	Val	Val	Leu
			100					105					110		
Thr	Gly	Lys	Gly	Ile	Gly	Thr	Gln	Glu	Leu	Lys	Asp	Lys	Asp	Asp	Glu
		115					120					125			
Thr	Lys	Asn	Ile	Gly	Val	Gly	Ile	Asn	Val	Arg	Ile	Gly	Lys	Asn	Glu
	130					135					140				
Ser	Leu	Ala	Phe	Asp	Lys	Asp	Gly	Asn	Leu	Val	Ala	Trp	Asp	Asn	Glu
145					150					155					160
Asn	Asp	Arg	Arg	Thr	Leu	Trp	Thr	Thr	Pro	Asp	Thr	Ser	Ser	Lys	Phe
				165					170					175	
Val	Lys	Ile	Ser	Thr	Glu	Lys	Asp	Ser	Lys	Leu	Thr	Leu	Val	Leu	Thr
			180					185					190		
Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Ser	Val	Ser	Leu	Leu	Ala	Val	Ala
		195					200					205			
Gly	Ser	Tyr	Leu	Asn	Met	Thr	Ala	Ser	Thr	Gln	Lys	Ser	Ile	Lys	Val
	210					215					220				
Ser	Leu	Met	Phe	Asp	Ser	Lys	Gly	Leu	Leu	Met	Thr	Thr	Ser	Ser	Ile
225					230					235					240
Asp	Lys	Gly	Tyr	Trp	Asn	Tyr	Arg	Asn	Lys	Asn	Ser	Val	Val	Gly	Thr
				245					250					255	
Ala	Tyr	Glu	Asn	Ala	Ile	Pro	Phe	Met	Pro	Asn	Leu	Val	Ala	Tyr	Pro
			260					265					270		
Arg	Pro	Asn	Thr	Pro	Asp	Ser	Lys	Ile	Tyr	Ala	Arg	Ser	Lys	Ile	Val
		275					280					285			
Gly	Asn	Val	Tyr	Leu	Ala	Gly	Leu	Ala	Tyr	Gln	Pro	Ile	Val	Ile	Thr
	290					295					300				
Val	Ser	Phe	Asn	Gln	Glu	Lys	Asp	Ala	Ser	Cys	Ala	Tyr	Ser	Ile	Thr
305					310					315					320
Phe	Glu	Phe	Ala	Trp	Asn	Lys	Asp	Tyr	Val	Gly	Gln	Phe	Asp	Thr	Thr
				325					330					335	
Ser	Phe	Thr													

<211> 389
<212> PRT
<213> Human Adenovirus 47 Fiber Protein

<400> 39

Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met	Lys	Arg
1				5					10					15	
Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr	Gly	Tyr
			20					25					30		
Ala	Arg	Asn	Gln	Asn	Ile	Pro	Phe	Leu	Thr	Pro	Pro	Phe	Val	Ser	Ser
		35					40					45			
Asp	Gly	Phe	Lys	Asn	Phe	Pro	Pro	Gly	Val	Leu	Ser	Leu	Lys	Leu	Ala
	50					55					60				
Asp	Pro	Ile	Thr	Ile	Thr	Asn	Gly	Asp	Val	Ser	Leu	Lys	Val	Gly	Gly
65				70					75						80
Gly	Leu	Thr	Leu	Gln	Glu	Gly	Thr	Gly	Asn	Leu	Thr	Val	Asn	Ala	Lys
				85					90					95	
Ala	Pro	Leu	Gln	Val	Ala	Asp	Asp	Lys	Lys	Leu	Glu	Leu	Ser	Tyr	Asp
			100					105					110		
Asn	Pro	Phe	Glu	Val	Ser	Ala	Asn	Lys	Leu	Ser	Leu	Lys	Val	Gly	His
		115					120					125			
Gly	Leu	Lys	Val	Leu	Asp	Glu	Lys	Asn	Ser	Gly	Gly	Leu	Gln	Glu	Leu
	130					135					140				
Ile	Gly	Lys	Leu	Val	Ile	Leu	Thr	Gly	Lys	Gly	Ile	Gly	Val	Glu	Glu
145					150					155					160
Leu	Lys	Asn	Ala	Asp	Asn	Thr	Asn	Arg	Gly	Val	Gly	Ile	Asn	Val	Arg
				165					170					175	
Leu	Gly	Lys	Asp	Gly	Gly	Leu	Ser	Phe	Asp	Lys	Lys	Gly	Glu	Leu	Val
			180					185					190		
Ala	Trp	Asn	Lys	His	Asn	Asp	Thr	Arg	Thr	Leu	Trp	Thr	Thr	Pro	Asp
		195					200					205			
Pro	Ser	Pro	Asn	Cys	Lys	Ile	Glu	Gln	Asp	Lys	Asp	Ser	Lys	Leu	Thr
	210					215					220				
Leu	Val	Leu	Thr	Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Thr	Met	Ala	Phe
225					230					235					240
Gln	Val	Val	Lys	Asp	Thr	Tyr	Glu	Asn	Ile	Ser	Lys	Asn	Thr	Ala	Lys
				245					250					255	
Lys	Ser	Phe	Ser	Ile	Lys	Leu	Leu	Phe	Asp	Asp	Asn	Gly	Lys	Leu	Leu
			260					265					270		
Glu	Gly	Ser	Ser	Leu	Asp	Lys	Asp	Tyr	Trp	Asn	Phe	Arg	Asn	Asp	Asp
		275					280					285			
Ser	Ile	Met	Pro	Ser	Gln	Tyr	Asp	Asn	Ala	Val	Pro	Phe	Met	Pro	Asn
	290					295					300				
Leu	Lys	Ala	Tyr	Pro	Asn	Pro	Lys	Thr	Ser	Thr	Val	Leu	Pro	Ser	Thr
305					310					315					320

Leu Leu Phe Asp Glu Lys Gly Val Leu Leu Lys Asp Ser Ser Leu Asp
 225 230 235 240
 Lys Glu Tyr Trp Asn Tyr Arg Ser Asn Asn Asn Asn Val Gly Ser Ala
 245 250 255
 Tyr Glu Glu Ala Val Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Lys
 260 265 270
 Pro Pro Thr Pro Pro Thr Asn Pro Thr Thr Pro Leu Glu Lys Ser Gln
 275 280 285
 Ala Lys Asn Lys Tyr Val Ser Asn Val Tyr Leu Gly Gly Gln Ala Gly
 290 295 300
 Asn Pro Val Ala Thr Thr Val Ser Phe Asn Lys Glu Thr Gly Cys Thr
 305 310 315 320
 Tyr Ser Ile Thr Phe Asp Phe Ala Trp Asn Lys Thr Tyr Lys Met Ala
 325 330 335
 Phe Ile Pro Arg Phe Asn Phe
 340

<210> 41
 <211> 393
 <212> PRT
 <213> Human Adenovirus 49 Fiber Protein

<220>
 <221> Xaa
 <222> (262)..(262)
 <223> Can be any nucleic acid

<400> 41

Ser Cys Ser Cys Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
 1 5 10 15
 Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr
 20 25 30
 Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val
 35 40 45
 Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
 50 55 60
 Leu Ala Asp Pro Ile Ala Ile Thr Asn Gly Asn Val Ser Leu Lys Val
 65 70 75 80
 Gly Gly Gly Leu Thr Val Glu Gln Asp Ser Gly Asn Leu Lys Val Asn
 85 90 95
 Pro Lys Ala Pro Leu Gln Val Ala Thr Asp Asn Gln Leu Glu Ile Ser
 100 105 110
 Leu Ala Asp Pro Phe Glu Val Lys Asn Lys Lys Leu Ser Leu Lys Val
 115 120 125
 Gly His Gly Leu Lys Val Ile Asp Glu Asn Ile Ser Thr Leu Gln Gly
 130 135 140
 Leu Leu Gly Asn Leu Val Val Leu Thr Gly Met Gly Ile Gly Thr Glu

145		150		155		160									
Glu	Leu	Lys	Lys	Asp	Asp	Lys	Ile	Val	Gly	Ser	Ala	Val	Asn	Val	Arg
				165					170					175	
Leu	Gly	Gln	Asp	Gly	Gly	Leu	Thr	Phe	Asp	Lys	Lys	Gly	Asp	Leu	Val
			180					185					190		
Ala	Trp	Asn	Lys	Glu	Asn	Asp	Arg	Arg	Thr	Leu	Trp	Thr	Thr	Pro	Asp
		195					200					205			
Pro	Ser	Pro	Asn	Cys	Lys	Val	Ser	Glu	Glu	Lys	Asp	Ser	Lys	Leu	Thr
	210					215					220				
Leu	Val	Leu	Thr	Lys	Cys	Gly	Ser	Gln	Ile	Leu	Ala	Ser	Val	Ser	Leu
225					230					235					240
Leu	Val	Val	Lys	Gly	Lys	Phe	Ala	Asn	Ile	Asn	Asn	Lys	Thr	Asn	Pro
				245					250					255	
Gly	Glu	Asp	Tyr	Lys	Xaa	Phe	Ser	Val	Lys	Leu	Leu	Phe	Asp	Ala	Asn
			260					265					270		
Gly	Lys	Leu	Leu	Thr	Gly	Ser	Ser	Leu	Asp	Gly	Asn	Tyr	Trp	Asn	Tyr
		275					280					285			
Lys	Asn	Lys	Asp	Ser	Val	Ile	Gly	Ser	Pro	Tyr	Glu	Asn	Ala	Val	Pro
	290					295					300				
Phe	Met	Pro	Asn	Ser	Thr	Ala	Tyr	Pro	Lys	Ile	Ile	Asn	Gly	Thr	Ala
305					310					315					320
Asn	Pro	Glu	Asp	Lys	Lys	Ser	Ala	Ala	Lys	Lys	Thr	Ile	Val	Thr	Asn
				325					330					335	
Val	Tyr	Leu	Gly	Gly	Asp	Ala	Ala	Lys	Pro	Val	Ala	Thr	Thr	Ile	Ser
			340					345					350		
Phe	Asn	Lys	Glu	Thr	Glu	Ser	Asn	Cys	Val	Tyr	Ser	Ile	Thr	Phe	Asp
		355					360					365			
Phe	Ala	Trp	Asn	Lys	Thr	Trp	Lys	Asn	Val	Pro	Phe	Asp	Ser	Ser	Ser
	370					375					380				
Leu	Thr	Phe	Ser	Tyr	Ile	Ala	Gln	Glu							
385					390										

<210> 42
 <211> 353
 <212> PRT
 <213> Human Adenovirus 52 Fiber Protein
 <400> 42

Ser	Cys	Ser	Cys	Pro	Ser	Ala	Pro	Thr	Ile	Phe	Met	Leu	Leu	Gln	Met
1				5					10					15	
Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro	Tyr
			20					25					30		
Glu	Asp	Glu	Ser	Thr	Ser	Gln	His	Pro	Phe	Ile	Asn	Pro	Gly	Phe	Ile
		35					40					45			
Ser	Pro	Asn	Gly	Phe	Thr	Gln	Ser	Pro	Asp	Gly	Val	Leu	Thr	Leu	Asn
	50					55					60				

Cys	Leu	Thr	Pro	Leu	Thr	Thr	Thr	Gly	Gly	Pro	Leu	Gln	Leu	Lys	Val	65	70	75	80
Gly	Gly	Gly	Leu	Ile	Val	Asp	Asp	Thr	Asp	Gly	Thr	Leu	Gln	Glu	Asn	85	90	95	
Ile	Arg	Val	Thr	Ala	Pro	Ile	Thr	Lys	Asn	Asn	His	Ser	Val	Glu	Leu	100	105	110	
Ser	Ile	Gly	Asn	Gly	Leu	Glu	Thr	Gln	Asn	Asn	Lys	Leu	Cys	Ala	Lys	115	120	125	
Leu	Gly	Asn	Gly	Leu	Lys	Phe	Asn	Asn	Gly	Asp	Ile	Cys	Ile	Lys	Asp	130	135	140	
Ser	Ile	Asn	Thr	Leu	Trp	Thr	Gly	Ile	Lys	Pro	Pro	Pro	Asn	Cys	Gln	145	150	155	160
Ile	Val	Glu	Asn	Thr	Asp	Thr	Asn	Asp	Gly	Lys	Leu	Thr	Leu	Val	Leu	165	170	175	
Val	Lys	Asn	Gly	Gly	Leu	Val	Asn	Gly	Tyr	Val	Ser	Leu	Val	Gly	Val	180	185	190	
Ser	Asp	Thr	Val	Asn	Gln	Met	Phe	Thr	Gln	Lys	Ser	Ala	Thr	Ile	Gln	195	200	205	
Leu	Arg	Leu	Tyr	Phe	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Thr	Asp	Glu	Ser	210	215	220	
Asn	Leu	Lys	Ile	Pro	Leu	Lys	Asn	Lys	Ser	Ser	Thr	Ala	Thr	Ser	Glu	225	230	235	240
Ala	Ala	Thr	Ser	Ser	Lys	Ala	Phe	Met	Pro	Ser	Thr	Thr	Ala	Tyr	Pro	245	250	255	
Phe	Asn	Thr	Thr	Thr	Arg	Asp	Ser	Glu	Asn	Tyr	Ile	His	Gly	Ile	Cys	260	265	270	
Tyr	Tyr	Met	Thr	Ser	Tyr	Asp	Arg	Ser	Leu	Val	Pro	Leu	Asn	Ile	Ser	275	280	285	
Ile	Met	Leu	Asn	Ser	Arg	Thr	Ile	Ser	Ser	Asn	Val	Ala	Tyr	Ala	Ile	290	295	300	
Gln	Phe	Glu	Trp	Asn	Leu	Asn	Ala	Lys	Glu	Ser	Pro	Glu	Ser	Asn	Ile	305	310	315	320
Ala	Thr	Leu	Thr	Thr	Ser	Pro	Phe	Phe	Phe	Ser	Tyr	Ile	Ile	Glu	Asp	325	330	335	
Thr	Thr	Lys	Cys	Ile	Ser	Leu	Cys	Tyr	Val	Ser	Thr	Cys	Leu	Phe	Phe	340	345	350	

Asn

<210> 43
 <211> 958
 <212> PRT
 <213> Human Adenovirus 34 Hexon Protein
 <400> 43

Leu 1	Ser	Arg	Arg	Ala 5	Pro	Gly	Phe	Pro	Leu 10	Val	Lys	Met	Ala	Thr 15	Pro
Ser	Met	Leu 20	Pro	Gln	Trp	Ala	Tyr	Met 25	His	Ile	Ala	Gly	Gln 30	Asp	Ala
Ser	Glu	Tyr 35	Leu	Ser	Pro	Gly	Leu 40	Val	Gln	Phe	Ala	Arg 45	Ala	Thr	Asp
Thr 50	Tyr	Val	Asn	Leu	Gly	Asn 55	Lys	Phe	Arg	Asn	Pro 60	Thr	Val	Ala	Pro
Thr 65	His	Asp	Val	Thr	Thr 70	Asp	Arg	Ser	Gln	Arg 75	Leu	Met	Leu	Arg	Phe 80
Val	Pro	Val	Asp	Arg 85	Glu	Asp	Asn	Thr	Tyr 90	Ser	Tyr	Lys	Val	Arg 95	Tyr
Thr	Leu	Ala	Val 100	Gly	Asp	Asn	Arg	Val 105	Leu	Asp	Met	Ala	Ser 110	Thr	Phe
Phe	Asp	Ile 115	Arg	Gly	Val	Leu	Asp 120	Arg	Gly	Pro	Ser	Phe 125	Lys	Pro	Tyr
Ser	Gly 130	Thr	Ala	Tyr	Asn	Ser 135	Leu	Ala	Pro	Lys	Gly 140	Ala	Pro	Asn	Ala
Ser 145	Gln	Trp	Leu	Asp	Lys 150	Gly	Val	Thr	Ser	Thr 155	Gly	Leu	Val	Asp	Asp 160
Gly	Asn	Thr	Thr	Asp 165	Asp	Gly	Glu	Glu 170	Ala	Lys	Lys	Ala	Thr	Tyr 175	Thr
Phe	Gly	Asn	Ala 180	Pro	Val	Lys	Ala	Glu 185	Ala	Glu	Ile	Thr	Lys 190	Asp	Gly
Leu	Pro	Val 195	Gly	Leu	Glu	Val	Ser 200	Thr	Glu	Gly	Pro	Lys 205	Pro	Ile	Tyr
Ala	Asp 210	Lys	Leu	Tyr	Gln	Pro 215	Glu	Pro	Gln	Val	Gly 220	Asp	Glu	Thr	Trp
Thr 225	Asp	Leu	Asp	Gly	Lys 230	Thr	Glu	Glu	Tyr	Gly 235	Gly	Arg	Val	Leu	Lys 240
Pro	Glu	Thr	Lys	Met 245	Lys	Pro	Cys	Tyr	Gly 250	Ser	Phe	Ala	Lys	Pro 255	Thr
Asn	Ile	Lys	Gly 260	Gly	Gln	Ala	Lys	Val 265	Lys	Pro	Lys	Glu	Asp 270	Asp	Gly
Thr	Asn	Asn 275	Ile	Glu	Tyr	Asp	Ile 280	Asp	Met	Asn	Phe	Phe 285	Asp	Leu	Arg
Ser	Gln 290	Arg	Ser	Glu	Leu	Lys 295	Pro	Lys	Ile	Val	Met 300	Tyr	Ala	Glu	Asn
Val 305	Asp	Leu	Glu	Cys	Pro 310	Asp	Thr	His	Val	Val 315	Tyr	Lys	Pro	Gly	Val 320
Ser	Asp	Ala	Ser	Ser 325	Glu	Thr	Asn	Leu	Gly 330	Gln	Gln	Ser	Met	Pro 335	Asn
Arg	Pro	Asn	Tyr 340	Ile	Gly	Phe	Arg	Asp 345	Asn	Phe	Ile	Gly	Leu	Met	Tyr 350

Tyr	Asn	Ser	Thr	Gly	Asn	Met	Gly	Val	Leu	Ala	Gly	Gln	Ala	Ser	Gln
		355					360					365			
Leu	Asn	Ala	Val	Val	Asp	Leu	Gln	Asp	Arg	Asn	Thr	Glu	Leu	Ser	Tyr
	370					375					380				
Gln	Leu	Leu	Asp	Ser	Leu	Gly	Asp	Arg	Thr	Arg	Tyr	Phe	Ser	Met	Trp
385					390					395					400
Asn	Gln	Ala	Val	Asp	Ser	Tyr	Asp	Pro	Asp	Val	Arg	Val	Ile	Glu	Asn
				405					410					415	
His	Gly	Val	Glu	Asp	Glu	Leu	Pro	Asn	Tyr	Cys	Phe	Pro	Leu	Asp	Gly
			420					425					430		
Val	Gly	Pro	Arg	Thr	Asp	Ser	Tyr	Lys	Glu	Ile	Lys	Pro	Asn	Gly	Asp
		435					440					445			
Gln	Ser	Thr	Trp	Thr	Asn	Val	Asp	Pro	Thr	Gly	Ser	Ser	Glu	Leu	Ala
	450					455					460				
Lys	Gly	Asn	Pro	Phe	Ala	Met	Glu	Ile	Asn	Leu	Gln	Ala	Asn	Leu	Trp
465					470					475					480
Arg	Ser	Phe	Leu	Tyr	Ser	Asn	Val	Ala	Leu	Tyr	Leu	Pro	Asp	Ser	Tyr
				485					490					495	
Lys	Tyr	Thr	Pro	Ser	Asn	Val	Thr	Leu	Pro	Glu	Asn	Lys	Asn	Thr	Tyr
			500					505					510		
Asp	Tyr	Met	Asn	Gly	Arg	Val	Val	Pro	Pro	Ser	Leu	Val	Asp	Thr	Tyr
		515					520					525			
Val	Asn	Ile	Gly	Ala	Arg	Trp	Ser	Leu	Asp	Ala	Met	Asp	Asn	Val	Asn
	530					535					540				
Pro	Phe	Asn	His	His	Arg	Asn	Ala	Gly	Leu	Arg	Tyr	Arg	Ser	Met	Leu
545					550					555					560
Leu	Gly	Asn	Gly	Arg	Tyr	Val	Pro	Phe	His	Ile	Gln	Val	Pro	Gln	Lys
				565					570					575	
Phe	Phe	Ala	Val	Lys	Asn	Leu	Leu	Leu	Leu	Pro	Gly	Ser	Tyr	Thr	Tyr
			580					585					590		
Glu	Trp	Asn	Phe	Arg	Lys	Asp	Val	Asn	Met	Val	Leu	Gln	Ser	Ser	Leu
		595					600					605			
Gly	Asn	Asp	Leu	Arg	Val	Asp	Gly	Ala	Ser	Ile	Ser	Phe	Thr	Ser	Ile
	610					615					620				
Asn	Leu	Tyr	Ala	Thr	Phe	Phe	Pro	Met	Ala	His	Asn	Thr	Ala	Ser	Thr
625					630					635					640
Leu	Glu	Ala	Met	Leu	Arg	Asn	Asp	Thr	Asn	Asp	Gln	Ser	Phe	Asn	Asp
				645					650					655	
Tyr	Leu	Ser	Ala	Ala	Asn	Met	Leu	Tyr	Pro	Ile	Pro	Ala	Asn	Ala	Thr
			660					665					670		
Asn	Ile	Pro	Ile	Ser	Ile	Pro	Ser	Arg	Asn	Trp	Ala	Ala	Phe	Arg	Gly
		675					680					685			
Trp	Ser	Phe	Thr	Arg	Leu	Lys	Thr	Lys	Glu	Thr	Pro	Ser	Leu	Gly	Ser

690					695					700						
Gly 705	Phe	Asp	Pro	Tyr	Phe 710	Val	Tyr	Ser	Gly	Ser 715	Ile	Pro	Leu	Asp	Gly 720	
Thr	Phe	Tyr	Leu	Asn 725	His	Thr	Phe	Lys	Lys 730	Val	Ser	Ile	Met	Phe	Asp 735	
Ser	Ser	Val	Ser 740	Trp	Pro	Gly	Asn 745	Asp	Arg	Leu	Leu	Ser	Pro	Asn	Glu 750	
Phe	Glu	Ile 755	Lys	Arg	Thr	Val	Asp 760	Gly	Glu	Gly	Tyr	Asn 765	Val	Ala	Gln	
Cys 770	Asn	Met	Thr	Asp	Trp	Phe 775	Leu	Val	Gln	Met	Leu 780	Ala	Asn	Tyr	Asn	
Ile 785	Gly	Tyr	Gln	Gly	Phe 790	Tyr	Ile	Pro	Glu	Gly 795	Tyr	Lys	Asp	Arg	Met 800	
Tyr	Ser	Phe	Phe	Arg 805	Asn	Phe	Gln	Pro	Met	810	Ser	Arg	Gln	Val	Val	Asp 815
Glu	Val	Asn	Lys 820	Tyr	Asp	Phe	Lys	Ala 825	Val	Ile	Pro	Tyr	Gln 830	His	Asn	
Asn	Ser	Gly 835	Phe	Val	Gly	Tyr	Met 840	Ala	Pro	Thr	Met	Arg 845	Gln	Gly	Gln	
Tyr 850	Pro	Ala	Asn	Tyr	Pro	Tyr 855	Pro	Leu	Ile	Gly	Thr 860	Thr	Ala	Val	Asn	
Ser 865	Val	Thr	Gln	Lys	Lys 870	Phe	Leu	Cys	Asp	Arg 875	Thr	Met	Trp	Arg	Ile 880	
Pro	Phe	Ser	Ser	Asn 885	Phe	Met	Ser	Met	Gly 890	Ala	Leu	Thr	Asp	Leu 895	Gly	
Gln	Asn	Met	Leu 900	Tyr	Ala	Asn	Ser	Ala 905	His	Ala	Leu	Asp	Met 910	Thr	Phe	
Glu	Val	Asp 915	Pro	Met	Asp	Glu	Pro 920	Thr	Leu	Leu	Tyr	Leu 925	Leu	Phe	Glu	
Val 930	Phe	Asp	Val	Val	Arg	Val 935	Gln	Pro	His	Arg	Gly 940	Ile	Ile	Glu	Ala	
Val 945	Tyr	Leu	Arg	Thr	Pro 950	Phe	Ser	Ala	Gly	Asn 955	Ala	Thr	Thr			

<210> 44
 <211> 946
 <212> PRT
 <213> Human Adenovirus 35 Hexon Protein

<400> 44

Leu 1	Ser	Arg	Arg	Ala 5	Pro	Gly	Phe	Pro	Leu 10	Val	Lys	Met	Ala	Thr	Pro 15
Ser	Met	Leu	Pro 20	Gln	Trp	Ala	Tyr	Met 25	His	Ile	Ala	Gly	Gln 30	Asp	Ala
Ser	Glu	Tyr 35	Leu	Ser	Pro	Gly	Leu 40	Val	Gln	Phe	Ala	Arg	Ala 45	Thr	Asp

Thr Tyr Phe Asn Leu Gly Asn Lys Phe Arg Asn Pro Thr Val Ala Pro
 50 55 60
 Thr His Asp Val Thr Thr Asp Arg Ser Gln Arg Leu Met Leu Arg Phe
 65 70 75 80
 Val Pro Val Asp Arg Glu Asp Asn Thr Tyr Ser Tyr Lys Val Arg Tyr
 85 90 95
 Thr Leu Ala Val Gly Asp Asn Arg Val Leu Asp Met Ala Ser Thr Phe
 100 105 110
 Phe Asp Ile Arg Gly Val Leu Asp Arg Gly Pro Ser Phe Lys Pro Tyr
 115 120 125
 Ser Gly Thr Ala Tyr Asn Ser Leu Ala Pro Lys Gly Ala Pro Asn Ala
 130 135 140
 Ser Gln Trp Leu Asp Lys Gly Val Thr Ser Thr Gly Leu Val Asp Asp
 145 150 155 160
 Gly Asn Thr Asp Asp Gly Glu Glu Ala Lys Lys Ala Thr Tyr Thr Phe
 165 170 175
 Gly Asn Ala Pro Val Lys Ala Glu Ala Glu Ile Thr Lys Asp Gly Leu
 180 185 190
 Pro Val Gly Leu Glu Val Ser Thr Glu Gly Pro Lys Pro Ile Tyr Ala
 195 200 205
 Asp Lys Leu Tyr Gln Pro Glu Pro Gln Val Gly Asp Thr Trp Thr Asp
 210 215 220
 Leu Asp Gly Lys Thr Glu Glu Tyr Gly Gly Arg Val Leu Lys Pro Glu
 225 230 235 240
 Thr Lys Met Lys Pro Cys Tyr Gly Ser Phe Ala Lys Pro Thr Asn Ile
 245 250 255
 Lys Gly Gly Gln Ala Lys Val Lys Pro Lys Glu Asp Asp Gly Thr Asn
 260 265 270
 Asn Ile Tyr Asp Ile Asp Met Asn Phe Phe Asp Leu Arg Ser Gln Arg
 275 280 285
 Ser Glu Leu Lys Pro Lys Ile Val Met Tyr Ala Glu Asn Val Asp Leu
 290 295 300
 Glu Cys Pro Asp Thr His Val Val Tyr Lys Pro Gly Val Ser Asp Ala
 305 310 315 320
 Ser Ser Glu Thr Asn Leu Gly Gln Gln Met Pro Asn Arg Pro Asn Tyr
 325 330 335
 Ile Gly Phe Arg Asp Asn Phe Ile Gly Leu Met Tyr Tyr Asn Ser Thr
 340 345 350
 Gly Asn Met Gly Val Leu Ala Gly Gln Ala Ser Gln Leu Asn Ala Val
 355 360 365
 Val Asp Leu Gln Asp Arg Asn Thr Glu Leu Ser Tyr Gln Leu Leu Leu
 370 375 380
 Ser Leu Gly Asp Arg Thr Arg Tyr Phe Ser Met Trp Asn Gln Ala Val

385						390						395						400
Asp	Ser	Tyr	Asp	Pro	Asp	Val	Arg	Val	Ile	Glu	Asn	His	Gly	Val	Glu			
				405					410					415				
Asp	Glu	Leu	Pro	Asn	Tyr	Cys	Phe	Pro	Leu	Asp	Gly	Val	Gly	Pro	Arg			
			420					425					430					
Thr	Asp	Ser	Tyr	Lys	Glu	Ile	Pro	Asn	Gly	Asp	Gln	Ser	Thr	Trp	Thr			
		435					440					445						
Asn	Val	Asp	Pro	Thr	Gly	Ser	Ser	Glu	Leu	Ala	Lys	Gly	Asn	Pro	Phe			
	450					455					460							
Ala	Met	Glu	Ile	Asn	Leu	Gln	Ala	Asn	Leu	Trp	Arg	Ser	Phe	Leu	Tyr			
465					470					475					480			
Ser	Asn	Val	Ala	Leu	Tyr	Leu	Pro	Asp	Ser	Tyr	Lys	Tyr	Thr	Ser	Asn			
				485					490					495				
Val	Thr	Leu	Pro	Glu	Asn	Lys	Asn	Thr	Tyr	Asp	Tyr	Met	Asn	Gly	Arg			
			500					505					510					
Val	Val	Pro	Pro	Ser	Leu	Val	Asp	Thr	Tyr	Val	Asn	Ile	Gly	Ala	Arg			
		515					520					525						
Trp	Ser	Leu	Asp	Ala	Met	Asp	Asn	Val	Asn	Pro	Phe	Asn	His	His	Arg			
	530					535					540							
Asn	Ala	Gly	Arg	Tyr	Arg	Ser	Met	Leu	Leu	Gly	Asn	Gly	Arg	Tyr	Val			
545					550					555					560			
Pro	Phe	His	Ile	Gln	Val	Pro	Gln	Lys	Phe	Phe	Ala	Val	Lys	Asn	Leu			
				565					570					575				
Leu	Leu	Leu	Pro	Gly	Ser	Tyr	Thr	Tyr	Glu	Trp	Asn	Phe	Arg	Lys	Asp			
			580					585					590					
Val	Asn	Met	Val	Leu	Gln	Ser	Ser	Leu	Asp	Leu	Arg	Val	Asp	Gly	Ala			
		595					600					605						
Ser	Ile	Ser	Phe	Thr	Ser	Ile	Asn	Leu	Tyr	Ala	Thr	Phe	Phe	Pro	Met			
	610					615					620							
Ala	His	Asn	Thr	Ala	Ser	Thr	Leu	Glu	Ala	Met	Leu	Arg	Asn	Asp	Thr			
625					630					635					640			
Asn	Asp	Gln	Ser	Phe	Asn	Asp	Tyr	Leu	Ser	Ala	Ala	Asn	Met	Leu	Tyr			
				645					650					655				
Pro	Ile	Ala	Asn	Ala	Thr	Asn	Ile	Pro	Ile	Ser	Ile	Pro	Ser	Arg	Asn			
			660					665					670					
Trp	Ala	Ala	Phe	Arg	Gly	Trp	Phe	Thr	Arg	Leu	Lys	Thr	Lys	Glu	Thr			
		675					680					685						
Pro	Ser	Leu	Gly	Ser	Gly	Phe	Asp	Pro	Tyr	Phe	Val	Tyr	Ser	Gly	Ser			
	690					695					700							
Ile	Pro	Tyr	Leu	Asp	Gly	Thr	Phe	Tyr	Leu	His	Thr	His	Lys	Lys	Val			
705					710					715					720			
Ser	Ile	Met	Phe	Asp	Ser	Ser	Val	Ser	Trp	Pro	Gly	Asn	Asp	Arg	Leu			
				725					730					735				

Leu Ser Pro Asn Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly
 740 745 750
 Tyr Asn Val Ala Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Trp
 755 760 765
 Leu Ala Asn Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly
 770 775 780
 Tyr Lys Asp Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser
 785 790 795 800
 Arg Gln Val Val Asp Glu Val Asn Tyr Lys Asp Phe Lys Ala Val Ala
 805 810 815
 Ile Pro Tyr Gln His Asn Asn Gly Phe Val Gly Tyr Met Ala Pro Thr
 820 825 830
 Met Arg Gln Gly Gln Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile
 835 840 845
 Gly Thr Thr Ala Val Asn Ser Val Thr Gln Lys Lys Phe Leu Cys Asp
 850 855 860
 Arg Thr Met Trp Arg Ile Pro Phe Ser Ser Asn Phe Met Ser Ala Leu
 865 870 875 880
 Thr Asp Leu Gly Gln Asn Met Leu Tyr Ala Asn Ser Ala His Ala Leu
 885 890 895
 Asp Met Thr Phe Glu Val Asp Pro Met Asp Glu Pro Thr Leu Leu Tyr
 900 905 910
 Leu Leu Phe Glu Val Phe Asp Val Val Arg Val His Gln Pro His Arg
 915 920 925
 Gly Ile Ile Glu Ala Val Leu Arg Thr Pro Phe Ser Ala Gly Asn Ala
 930 935 940
 Thr Thr
 945

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 <213> Human Adenovirus 36 Hexon Protein

<400> 45

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 20 25 30
 Ser Glu Tyr Leu Ser Pro Gly Leu Val Gln Phe Ala Arg Ala Thr Asp
 35 40 45
 Thr Tyr Phe Asn Leu Gly Asn Lys Phe Arg Asn Pro Thr Val Ala Pro
 50 55 60
 Thr His Asp Val Thr Thr Asp Arg Ser Gln Arg Leu Met Leu Arg Phe
 65 70 75 80
 Val Pro Val Asp Arg Glu Asp Asn Thr Tyr Ser Tyr Lys Val Arg Tyr

85								90				95			
Thr	Leu	Ala	Val	Gly	Asp	Asn	Arg	Val	Leu	Asp	Met	Ala	Ser	Thr	Phe
			100					105					110		
Phe	Asp	Ile	Arg	Gly	Val	Leu	Asp	Arg	Gly	Pro	Ser	Phe	Lys	Pro	Tyr
		115					120					125			
Ser	Gly	Thr	Ala	Tyr	Asn	Ser	Leu	Ala	Pro	Lys	Gly	Ala	Pro	Asn	Ala
	130					135					140				
Ser	Gln	Trp	Leu	Asp	Lys	Gly	Val	Thr	Ser	Thr	Gly	Leu	Val	Asp	Asp
145					150					155					160
Gly	Asn	Thr	Asp	Asp	Gly	Glu	Glu	Ala	Lys	Lys	Ala	Thr	Tyr	Thr	Phe
				165					170					175	
Gly	Asn	Ala	Pro	Val	Lys	Ala	Glu	Ala	Glu	Ile	Thr	Lys	Asp	Gly	Leu
			180						185				190		
Pro	Val	Gly	Leu	Glu	Val	Ser	Thr	Glu	Gly	Pro	Lys	Pro	Ile	Tyr	Ala
		195					200					205			
Asp	Lys	Leu	Tyr	Gln	Pro	Glu	Pro	Gln	Val	Gly	Asp	Thr	Trp	Thr	Asp
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Leu	Asp	Gly	Lys	Thr	Glu	Glu	Tyr	Gly	Gly	Arg	Val	Leu	Lys	Pro	Glu
225					230					235					240
Thr	Lys	Met	Lys	Pro	Cys	Tyr	Gly	Ser	Phe	Ala	Lys	Pro	Thr	Asn	Ile
				245					250					255	
Lys	Gly	Gly	Gln	Ala	Lys	Val	Lys	Pro	Lys	Glu	Asp	Asp	Gly	Thr	Asn
			260					265				270			
Asn	Ile	Tyr	Asp	Ile	Asp	Met	Asn	Phe	Phe	Asp	Leu	Arg	Ser	Gln	Arg
		275					280					285			
Ser	Glu	Leu	Lys	Pro	Lys	Ile	Val	Met	Tyr	Ala	Glu	Asn	Val	Asp	Leu
	290					295					300				
Glu	Cys	Pro	Asp	Thr	His	Val	Val	Tyr	Lys	Pro	Gly	Val	Ser	Asp	Ala
305					310					315					320
Ser	Ser	Glu	Thr	Asn	Leu	Gly	Gln	Gln	Ser	Met	Pro	Asn	Arg	Pro	Asn
				325					330					335	
Tyr	Ile	Gly	Phe	Arg	Asp	Asn	Phe	Ile	Gly	Leu	Met	Tyr	Tyr	Asn	Ser
			340				345					350			
Thr	Gly	Asn	Met	Gly	Val	Leu	Ala	Gly	Gln	Ala	Ser	Gln	Leu	Asn	Ala
		355					360					365			
Val	Val	Asp	Leu	Gln	Asp	Arg	Asn	Thr	Glu	Leu	Ser	Tyr	Gln	Leu	Leu
		370				375					380				
Asp	Ser	Leu	Gly	Asp	Arg	Thr	Arg	Tyr	Phe	Ser	Met	Trp	Asn	Gln	Ala
385					390					395					400
Val	Asp	Ser	Tyr	Asp	Pro	Asp	Val	Arg	Val	Ile	Glu	Asn	His	Gly	Val
				405					410				415		
Glu	Asp	Glu	Leu	Pro	Asn	Tyr	Cys	Phe	Pro	Leu	Asp	Gly	Val	Gly	Pro
			420					425				430			

Arg	Thr	Asp	Ser	Tyr	Lys	Ile	Lys	Pro	Asn	Gly	Asp	Gln	Ser	Thr	Trp
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Thr	Asn	Val	Asp	Pro	Thr	Gly	Ser	Ser	Glu	Leu	Ala	Lys	Gly	Asn	Pro
	450					455					460				
Phe	Ala	Met	Glu	Ile	Asn	Leu	Gln	Ala	Asn	Leu	Trp	Arg	Ser	Phe	Leu
465					470					475					480
Tyr	Ser	Asn	Val	Ala	Leu	Tyr	Leu	Pro	Asp	Ser	Tyr	Lys	Tyr	Thr	Pro
				485					490					495	
Ser	Asn	Val	Thr	Leu	Pro	Glu	Asn	Lys	Asn	Thr	Tyr	Asp	Tyr	Met	Asn
			500					505					510		
Gly	Arg	Val	Val	Pro	Pro	Ser	Leu	Val	Asp	Thr	Tyr	Val	Asn	Ile	Gly
		515					520					525			
Ala	Arg	Trp	Ser	Leu	Asp	Ala	Met	Asp	Asn	Val	Asn	Pro	Phe	Asn	His
	530					535					540				
His	Arg	Ala	Gly	Leu	Arg	Tyr	Arg	Ser	Met	Leu	Leu	Gly	Asn	Gly	Arg
545					550					555					560
Tyr	Val	Pro	Phe	His	Ile	Gln	Val	Pro	Gln	Lys	Phe	Phe	Ala	Val	Lys
				565					570					575	
Asn	Leu	Leu	Leu	Leu	Pro	Gly	Ser	Tyr	Thr	Tyr	Glu	Trp	Asn	Phe	Arg
			580					585					590		
Lys	Asp	Val	Asn	Met	Val	Leu	Gln	Ser	Leu	Gly	Asn	Asp	Leu	Arg	Val
		595					600					605			
Asp	Gly	Ala	Ser	Ile	Ser	Phe	Thr	Ser	Ile	Asn	Leu	Tyr	Ala	Thr	Phe
	610					615					620				
Phe	Pro	Met	Ala	His	Asn	Thr	Ala	Ser	Thr	Leu	Glu	Ala	Met	Leu	Arg
625					630					635					640
Asn	Asp	Thr	Asn	Asp	Gln	Ser	Phe	Asn	Asp	Tyr	Leu	Ser	Ala	Ala	Asn
				645					650					655	
Met	Leu	Tyr	Pro	Ile	Pro	Ala	Asn	Ala	Thr	Asn	Ile	Pro	Ile	Ser	Ile
			660					665					670		
Pro	Ser	Arg	Asn	Trp	Ala	Ala	Phe	Arg	Gly	Trp	Ser	Phe	Thr	Arg	Leu
		675					680					685			
Lys	Thr	Lys	Glu	Thr	Pro	Ser	Leu	Gly	Ser	Gly	Phe	Asp	Pro	Tyr	Phe
	690					695					700				
Val	Tyr	Ser	Gly	Ser	Ile	Pro	Tyr	Asp	Gly	Thr	Phe	Tyr	Leu	Asn	His
705					710					715					720
Thr	Phe	Lys	Lys	Val	Ser	Ile	Met	Phe	Asp	Ser	Ser	Val	Ser	Trp	Pro
				725					730					735	
Gly	Asn	Asp	Arg	Leu	Leu	Ser	Pro	Asn	Glu	Phe	Glu	Ile	Lys	Arg	Thr
			740					745					750		
Val	Asp	Gly	Asp	Gly	Tyr	Asn	Val	Ala	Gln	Cys	Asn	Met	Thr	Lys	Trp
		755					760					765			
Phe	Leu	Val	Gln	Met	Leu	Ala	Asn	Tyr	Asn	Ile	Gly	Tyr	Gln	Gly	Phe
	770					775					780				

Tyr Ile Pro Glu Gly Tyr Lys Asp Arg Met Tyr Ser Phe Phe Arg Asn
 785 790 795 800
 Phe Gln Pro Met Ser Arg Gln Val Val Asp Glu Val Asn Tyr Lys Asp
 805 810 815
 Phe Lys Ala Val Ile Tyr Gln His Asn Asn Ser Gly Phe Val Gly Tyr
 820 825 830
 Met Ala Pro Thr Met Arg Gln Gly Gln Pro Tyr Pro Ala Asn Tyr Pro
 835 840 845
 Tyr Pro Leu Ile Gly Thr Thr Ala Val Asn Ser Val Thr Gln Lys Lys
 850 855 860
 Phe Leu Cys Asp Arg Thr Met Trp Arg Ile Pro Phe Ser Ser Asn Phe
 865 870 875 880
 Met Ser Met Gly Ala Leu Thr Asp Leu Gly Gln Asn Met Leu Tyr Ala
 885 890 895
 Asn Ser Ala His Ala Leu Asp Met Thr Phe Glu Val Asp Pro Met Asp
 900 905 910
 Glu Pro Thr Leu Leu Tyr Leu Leu Phe Glu Val Phe Asp Val Val Arg
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 Phe Ser Ala Gly Asn Ala Thr Thr
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 Ala Tyr Met His Ile Ala Gly Gln Asp Ala Ser Glu Tyr Leu Ser Pro
 35 40 45
 Gly Leu Val Gln Phe Ala Arg Ala Thr Asp Thr Tyr Phe Ser Leu Gly
 50 55 60
 Asn Lys Phe Arg Asn Pro Thr Val Ala Pro Thr His Asp Val Thr Thr
 65 70 75 80
 Asp Arg Ser Gln Arg Leu Thr Leu Arg Phe Ser Pro Ser Asp Arg Glu
 85 90 95
 Asp Thr Thr Tyr Ser Tyr Lys Ala Arg Phe Thr Leu Ala Gly Asp Asn
 100 105 110
 Arg Val Leu Asp Met Ala Ser Thr Tyr Phe Asp Ile Arg Gly Val Leu
 115 120 125

Asp 130	Arg	Gly	Pro	Ser	Phe	Lys 135	Pro	Tyr	Ser	Gly	Thr 140	Ala	Tyr	Asn	Ser
Leu 145	Ala	Pro	Lys	Gly	Ala 150	Pro	Asn	Ser	Ser	Gln 155	Trp	Ala	Asp	Lys	Glu 160
Arg	Val	Asn	Gly	Gly 165	Gly	Asn	Thr	Lys	Asp 170	Val	Thr	Lys	Thr	Phe 175	Gly
Val	Ala	Ala	Met 180	Gly	Gly	Glu	Asp	Ile 185	Thr	Glu	Lys	Gly	Leu 190	Lys	Ile
Gly	Thr	Asp 195	Thr	Thr	Ala	Asn	Glu 200	Pro	Ile	Phe	Ala	Asp 205	Lys	Asn	Phe
Gln 210	Pro	Glu	Pro	Gln	Val	Gly 215	Glu	Glu	Asn	Gln	Glu 220	Thr	Phe	Val	Phe
Tyr 225	Gly	Gly	Arg	Ala	Leu 230	Lys	Lys	Glu	Thr	Lys 235	Met	Lys	Pro	Cys	Tyr 240
Gly	Ser	Phe	Ala	Arg 245	Pro	Thr	Asn	Glu	Lys 250	Gly	Gly	Gln	Ala	Lys 255	Phe
Ile	Ile	Gly	Asp 260	Asn	Gly	Gln	Pro	Thr 265	Glu	Asn	His	Asp	Ile 270	Thr	Met
Ala	Phe	Asp 275	Thr	Pro	Gly	Gly	Thr 280	Ile	Thr	Gly	Gly	Thr 285	Gly	Gly	Pro
Gln 290	Asp	Glu	Leu	Lys	Ala	Asp 295	Ile	Val	Met	Tyr	Thr 300	Glu	Asn	Ile	Asn
Leu 305	Glu	Thr	Pro	Asp	Thr 310	His	Val	Val	Tyr	Lys 315	Pro	Gly	Lys	Glu	Asp 320
Asp	Ser	Ser	Glu	Ile 325	Asn	Leu	Val	Gln	Ser 330	Met	Pro	Asn	Arg	Pro 335	Asn
Tyr	Ile	Gly	Phe 340	Arg	Asp	Asn	Phe	Val 345	Gly	Leu	Met	Tyr	Tyr 350	Asn	Ser
Thr	Gly	Asn 355	Met	Gly	Val	Leu	Ala 360	Gly	Gln	Ala	Ser	Gln 365	Leu	Asn	Ala
Val 370	Val	Asp	Leu	Gln	Asp	Arg 375	Asn	Thr	Glu	Leu	Ser 380	Tyr	Gln	Leu	Leu
Asp 385	Ser	Leu	Gly	Asp	Arg 390	Thr	Arg	Tyr	Phe	Ser 395	Met	Trp	Asn	Ser	Ala 400
Val	Asp	Ser	Tyr	Asp 405	Pro	Asp	Val	Arg	Ile 410	Ile	Glu	Asn	His	Gly 415	Val
Glu	Asp	Glu	Leu 420	Pro	Asn	Tyr	Cys	Phe 425	Pro	Leu	Asp	Gly 430	Ser	Gly	Thr
Asn	Ser	Ala 435	Phe	Gln	Gly	Lys	Ile 440	Lys	Gln	Asn	Gln	Asp 445	Gly	Asp	Val
Asn 450	Asp	Asp	Trp	Glu	Lys	Asp 455	Asp	Lys	Val	Ser	Thr 460	Gln	Asn	Gln	Ile
Cys 465	Lys	Gly	Asn	Glu	Tyr 470	Ala	Met	Glu	Ile	Asn 475	Leu	Gln	Ala	Asn	Leu 480

Trp	Lys	Ser	Phe	Leu	Tyr	Ser	Asn	Val	Ala	Leu	Tyr	Leu	Asp	Ser	Tyr
				485					490					495	
Lys	Tyr	Thr	Pro	Ala	Asn	Val	Thr	Leu	Pro	Thr	Asn	Thr	Asn	Thr	Glu
			500					505					510		
Tyr	Met	Asn	Gly	Arg	Val	Val	Ala	Pro	Ser	Leu	Val	Asp	Ala	Tyr	Ile
		515					520					525			
Asn	Ile	Gly	Ala	Arg	Trp	Ser	Leu	Asp	Pro	Met	Asp	Asn	Val	Asn	Pro
	530					535					540				
Phe	Asn	His	Arg	Asn	Ala	Gly	Leu	Arg	Tyr	Arg	Ser	Asn	Ala	Ser	Gly
545					550					555					560
Gln	Arg	Pro	Leu	Arg	Ala	Leu	Pro	His	Pro	Ser	Ala	Pro	Lys	Val	Leu
				565					570					575	
Cys	His	Gln	Glu	Pro	Ala	Pro	Ala	Pro	Gly	Leu	Leu	His	Leu	Arg	Val
			580					585					590		
Glu	Leu	Pro	Gln	Gly	Arg	Gln	His	Asp	Ala	Glu	Phe	Pro	Arg	Lys	Arg
		595					600					605			
Pro	Ala	Arg	Arg	Arg	Arg	Leu	Arg	Ala	Leu	Arg	Gln	Arg	Gln	Pro	Leu
	610					615					620				
Cys	His	Ile	Leu	Pro	His	Gly	Ala	Gln	His	Arg	Leu	His	Pro	Gly	Ser
625					630					635					640
His	Ala	Ala	Gln	Arg	His	Gln	Arg	Pro	Val	Leu	Gln	Arg	Leu	Pro	Leu
				645					650					655	
Arg	Gln	His	Ala	Leu	Pro	His	Pro	Gly	Gln	Gly	His	Gln	Arg	Ala	His
			660					665					670		
Leu	His	Pro	Ala	Gln	Leu	Gly	Arg	Leu	Ser	Arg	Leu	Glu	Phe	His	Pro
		675					680					685			
Ala	Gln	Asp	Gln	Gly	Asn	Ser	Phe	Pro	Arg	Leu	Gly	Phe	Arg	Pro	Leu
	690					695					700				
Leu	Cys	Leu	Leu	Gly	Leu	His	Pro	Leu	Pro	Arg	Arg	Asp	Leu	Leu	Pro
705					710					715					720
Gln	Pro	His	Leu	Gln	Glu	Gly	Leu	His	His	Val	Arg	Leu	Leu	Gly	Gln
				725					730					735	
Leu	Ala	Arg	Gln	Arg	Thr	Ala	Val	Thr	Pro	Asn	Glu	Phe	Glu	Ile	Lys
			740					745					750		
Arg	Ser	Val	Asp	Gly	Glu	Gly	Tyr	Asn	Val	Ala	Gln	Cys	Met	Thr	Lys
		755					760					765			
Asp	Trp	Phe	Leu	Val	Gln	Met	Leu	Ser	His	Tyr	Asn	Ile	Gly	Tyr	Gln
	770					775					780				
Gly	Phe	His	Val	Pro	Glu	Gly	Tyr	Lys	Asp	Arg	Met	Tyr	Ser	Phe	Phe
785					790					795					800
Arg	Asn	Phe	Gln	Pro	Met	Ser	Arg	Gln	Val	Val	Asp	Glu	Ile	Asn	Tyr
			805						810					815	
Lys	Asp	Tyr	Ala	Val	Thr	Leu	Pro	Phe	Gln	His	Asn	Asn	Ser	Gly	Phe

820	825	830	
Thr Gly Tyr Leu Ala Pro Thr Met Arg Gln Gly Gln Pro Tyr Pro Ala			
835	840	845	
Asn Phe Pro Leu Ile Gly Ser Thr Ala Val Pro Ser Val Thr Gln Lys			
850	855	860	
Lys Phe Leu Cys Asp Arg Val Met Trp Arg Ile Pro Phe Ser Ser Asn			
865	870	875	880
Phe Met Ser Met Gly Ala Leu Thr Asp Leu Gly Gln Asn Met Leu Tyr			
885	890		895
Ala Asn Ser Ala His Ala Leu Asp Ile Thr Phe Glu Val Asp Pro Met			
900	905		910
Asp Glu Pro Thr Leu Leu Tyr Leu Leu Phe Glu Val Phe Asp Val Val			
915	920		925
Val His Gln Pro His Arg Gly Val Ile Glu Ala Val Tyr Leu Arg Thr			
930	935		940
Pro Phe Ser Ala Gly Asn Ala Thr Thr			
945	950		
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 <210> 54
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